

An aerial photograph of a football stadium, likely at Xavier High School, which is completely inundated with floodwater. The stadium's red running track and blue football field are visible, with yard lines and yard numbers (10, 20, 30, 40, 50) clearly marked. The word "XAVIER" is painted in large red letters on the field, and "CARDINALS" is visible on the left end zone. A large "X" logo is in the center of the field. The surrounding area, including a parking lot and nearby buildings, is also flooded. The background shows a vast expanse of green agricultural fields under a grey, overcast sky. The text "FLOOD MANAGEMENT EVALUATIONS (FMES) FACT SHEETS" is overlaid in large, white, bold, sans-serif font across the center of the image.

**FLOOD MANAGEMENT
EVALUATIONS
(FMES)
FACT SHEETS**

Brooks County Master Drainage Study

FME ID: 151000001

FME Description

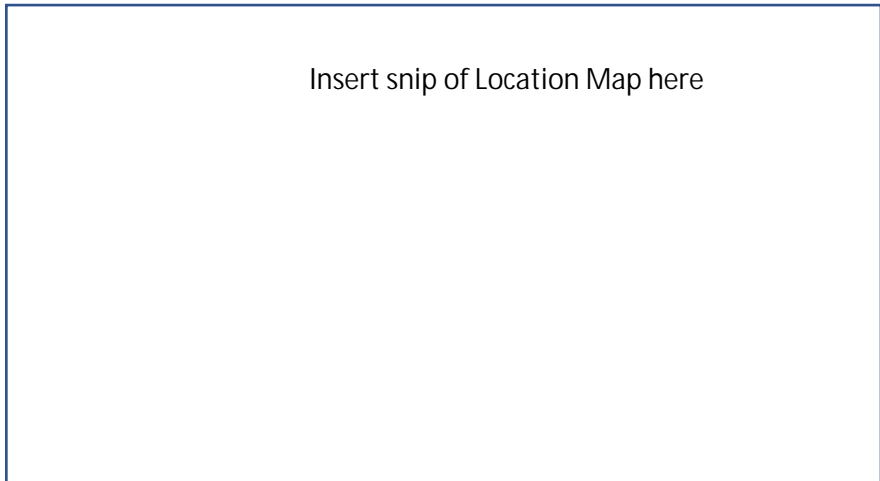
Develop Flood risk maps for the county of Brooks and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Brooks
HUC 8
HUC 12
Study Area (sq. mi.) 685.70



Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No Frequency:
Population at Risk # of structures inundated
Roadways flooded Yes No Miles inundated?
Critical Facilities Impacted Yes No Agricultural Land impacted Yes No
Notes:

Study Costs

Total Cost: \$250,000 Study Sponsor:
Estimated year to start: Entity with Oversight
Time to complete? Included in a CIP or other plan? Yes No
Funding Dedicated? Yes No (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

FME ID: 151000002

Bayview Action #6

FME Description

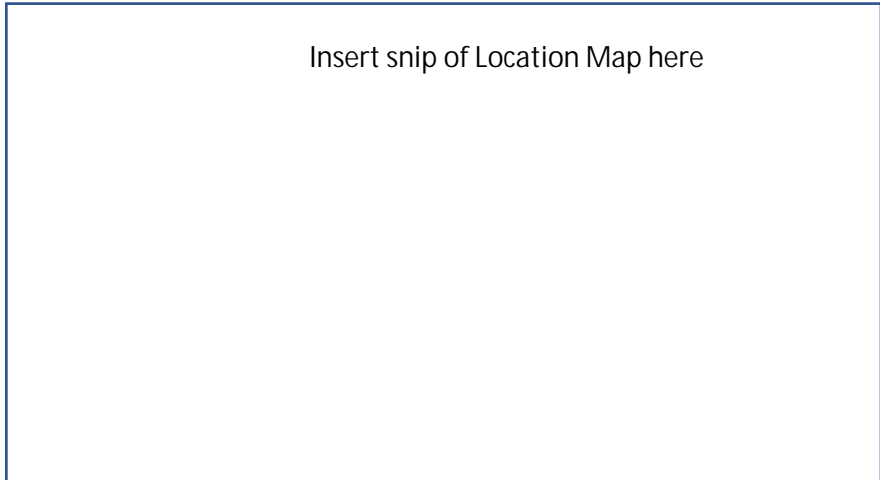
Upgrade three roadway bridges and one footbridge including structural improvements and stabilization to reduce damages caused by flooding and high winds.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Bayview
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102080800,
 121102080900
 Study Area (sq. mi.) N/A



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$369,600	Study Sponsor:	Bayview
Estimated year to start:	2018	Entity with Oversight	Bayview
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	HMGP; USDA; Other Grants

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Indian Lake Action #1

FME ID: 151000007

FME Description

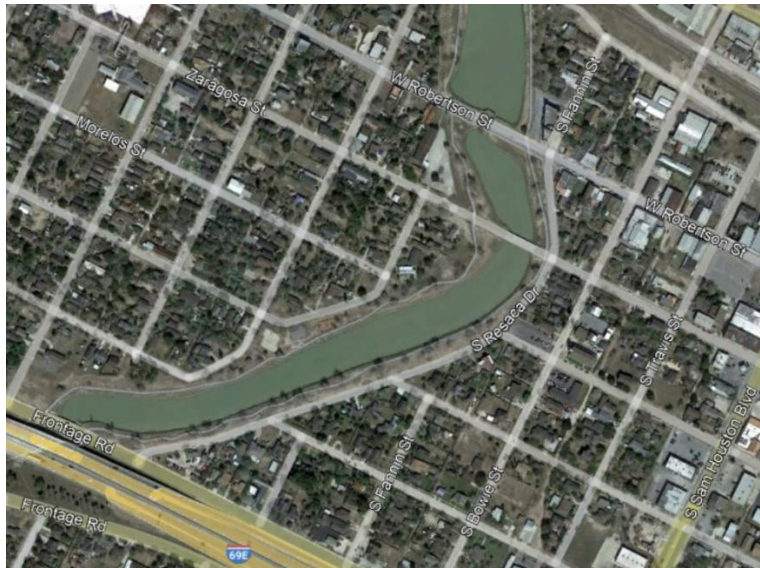
Elevate and harden S Resaca Shore Drive bridge to reduce risk of damages and maintaining critical access route.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Indian Lake
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102080900
 Study Area (sq. mi.) 0.21



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$92,400	Study Sponsor:	Indian Lakes
Estimated year to start:	2018	Entity with Oversight	Indian Lakes
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	General Fund; HMGP

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes v No

Indian Lake Action #12

FME ID: 151000008

FME Description

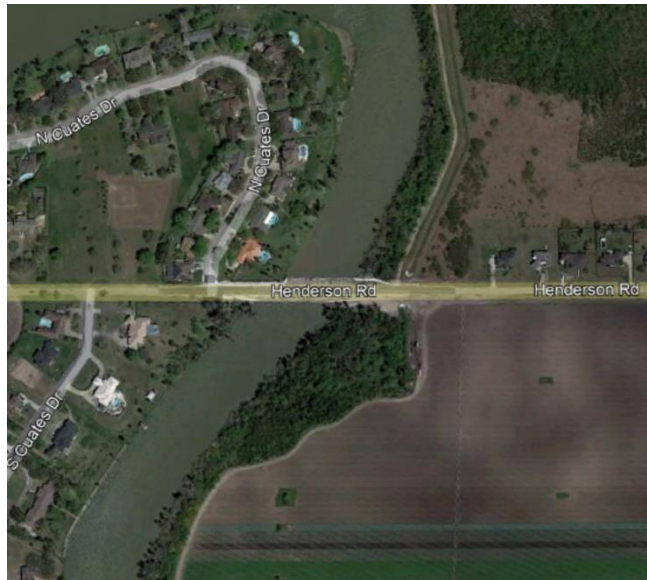
Upgrade/Elevate Henderson Road bridge over Resaca to remove from potential floodway, reduce the risk of damages, and maintain critical access route.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Indian Lake
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102080900
 Study Area (sq. mi.) 0.16



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$184,800	Study Sponsor:	Indian Lakes
Estimated year to start:	2019	Entity with Oversight	Indian Lakes
Time to complete?	2021	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	General Fund; HMGP

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes v No

Indian Lake Action #17

FME ID: 151000009

FME Description

Upgrade shoulders and provide turnouts along Henderson Road to support evacuation route.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Indian Lake
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102080900
 Study Area (sq. mi.) 0.78



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated	
Population at Risk		Miles inundated?	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>		

Notes:

Study Costs

Total Cost:	\$9,240	Study Sponsor:	Indian Lakes
Estimated year to start:	2019	Entity with Oversight	Indian Lakes
Time to complete?	2021	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	General Fund; HMGP

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes v No

Indian Lake Action #18

FME ID: 151000010

FME Description

Harden critical facilities, to include the Town Hall/Police Station, to reduce or eliminate wind, hail, and flood damage and ensure continuity of emergency services.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Indian Lake
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102080900
 Study Area (sq. mi.) 0.50



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$27,720	Study Sponsor:	Indian Lakes
Estimated year to start:	2018	Entity with Oversight	Indian Lakes
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	General Fund; HMGP

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Laguna Vista Action #10

FME ID: 151000012

FME Description

Drainage Improvements: Harden and reinforce head wall along the Laguna Madre bay off Beach Boulevard.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Laguna Vista
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102080800,
 121102080900
 Study Area (sq. mi.) 0.41



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$924,000	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes v No

Laguna Vista Action #11

FME ID: 151000013

FME Description

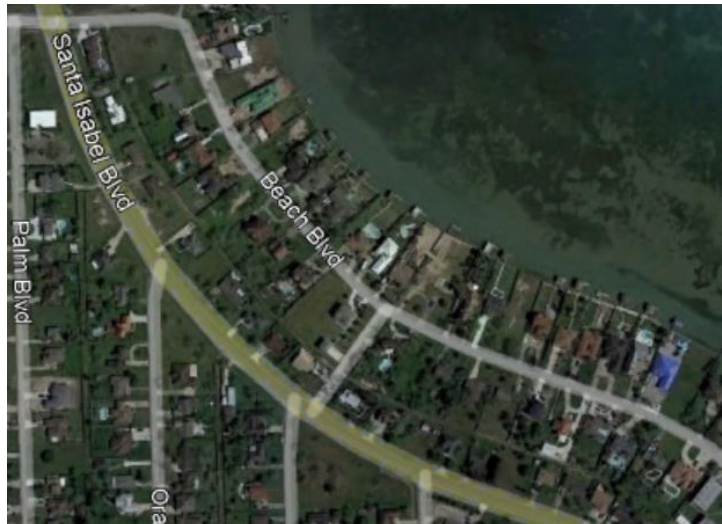
Drainage Improvements: Upgrade 48" drainage pipe located at 1004 Beach Blvd to increase capacity and reduce risk of flood damages.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Laguna Vista
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102080800,
 121102080900
 Study Area (sq. mi.) 0.01



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$92,400	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes v No

Laguna Vista Action #12

FME ID: 151000014

FME Description

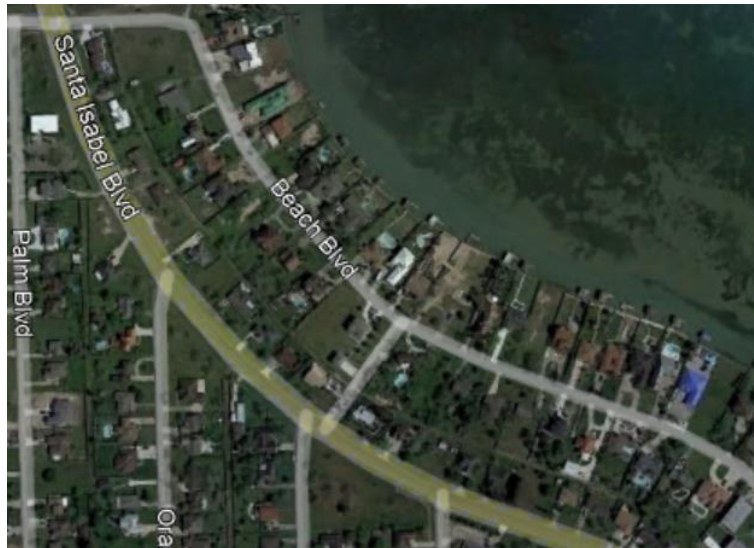
Drainage Improvements: Relocate and upgrade existing 36" drainage pipe located at 1026 Beach Blvd to increase capacity and reduce risk of flood damages.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Laguna Vista
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102080800,
 121102080900
 Study Area (sq. mi.) 0.01



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$92,400	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Laguna Vista Action #19

FME ID: 151000015

FME Description

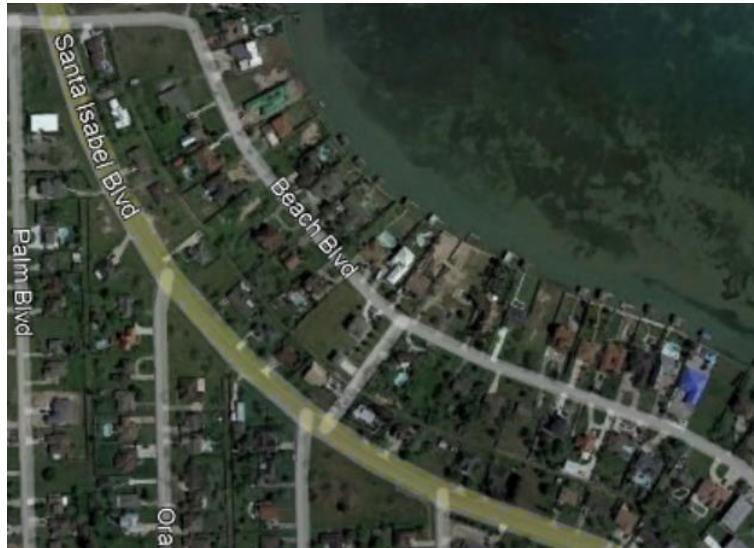
Harden Town Hall with wind, hail, and flood mitigation measures to reduce damages and ensure continuity of services

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Laguna Vista
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102080800,
 121102080900
 Study Area (sq. mi.) 0.01



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$18,480	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Laguna Vista Action #3

FME ID: 151000017

FME Description

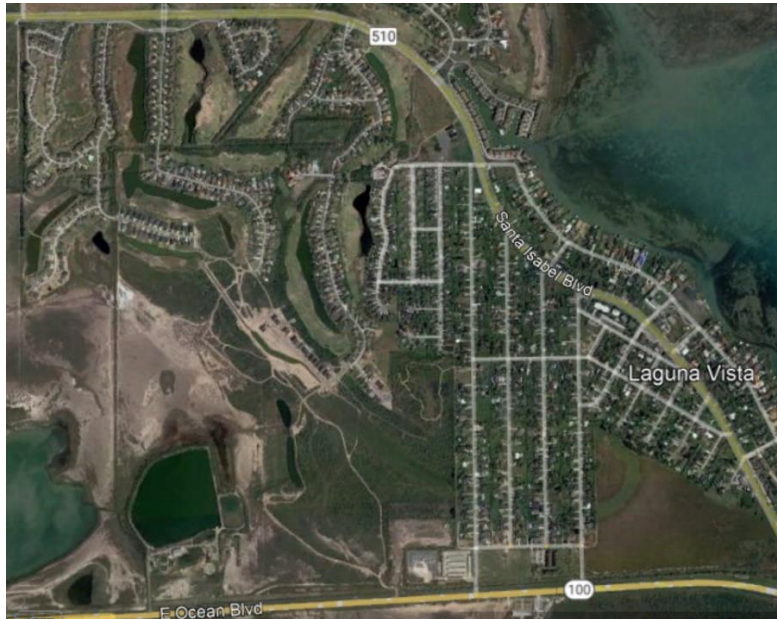
Drainage improvements Basin "D": Install upgraded drainage system west side of State Highway 510 for 80 acre residential area. Current system is inadequate to carry storm water runoff.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Laguna Vista
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102080800,
 121102080900
 Study Area (sq. mi.) 1.87



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$924,000	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Laguna Vista Action #4

FME ID: 151000018

FME Description

Drainage improvements Basin "E": Install upgraded drainage system off Saunders Street and State Highway 510 that drains acreage south of Fernandez Street and north of Morris Street.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Laguna Vista
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102080800,
 121102080900
 Study Area (sq. mi.) N/A



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$924,000	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes v No

Laguna Vista Action #5

FME ID: 151000019

FME Description

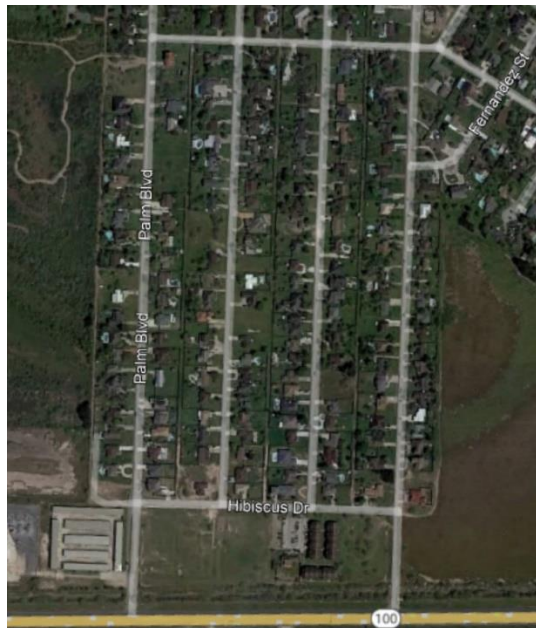
Drainage improvements Basin "F": Install drainage system at the most southwestern part of the Town limits, bounded by State Highway 100 and State Highway 510.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Laguna Vista
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102080800,
 121102080900
 Study Area (sq. mi.) 0.18



Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No
 Population at Risk
 Roadways flooded Yes No
 Critical Facilities Impacted Yes No
 Notes:

Frequency of flooding:
 # of structures inundated
 Miles inundated?
 Agricultural Land impacted Yes No

Study Costs

Total Cost: \$924,000
 Estimated year to start: 2018
 Time to complete? 2020
 Funding Dedicated? Yes No

Study Sponsor: Laguna Vista
 Entity with Oversight: Laguna Vista
 Included in a Hazard Mitigation Action Plan or other plan? Yes No
 (Potential) Source of Funding: HMGP; Local Funds; Other Grants; Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Laguna Vista Action #6

FME ID: 151000020

FME Description

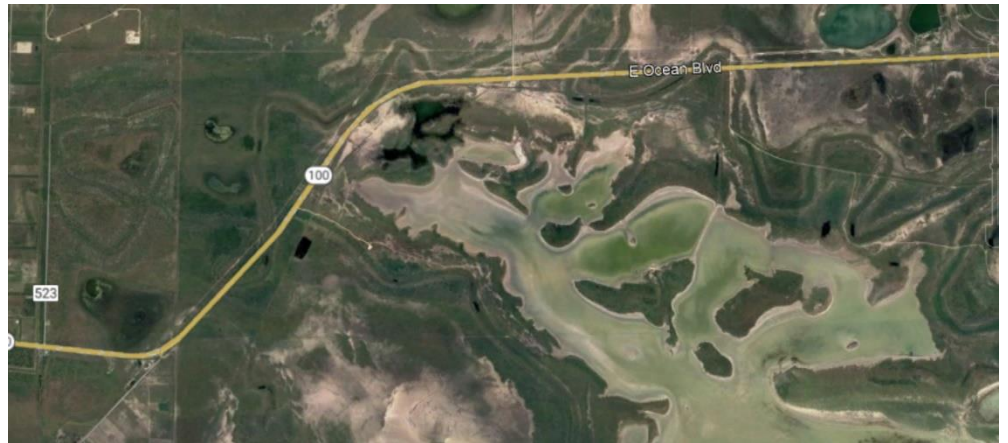
Drainage improvements SH 100: Regrade the existing drainage ditch that parallels State Highway 100 to increase capacity and reduce risk of flooding.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Laguna Vista
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102080800,
 121102080900
 Study Area (sq. mi.) 13.5



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$369,600	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Laguna Vista Action #7

FME Description

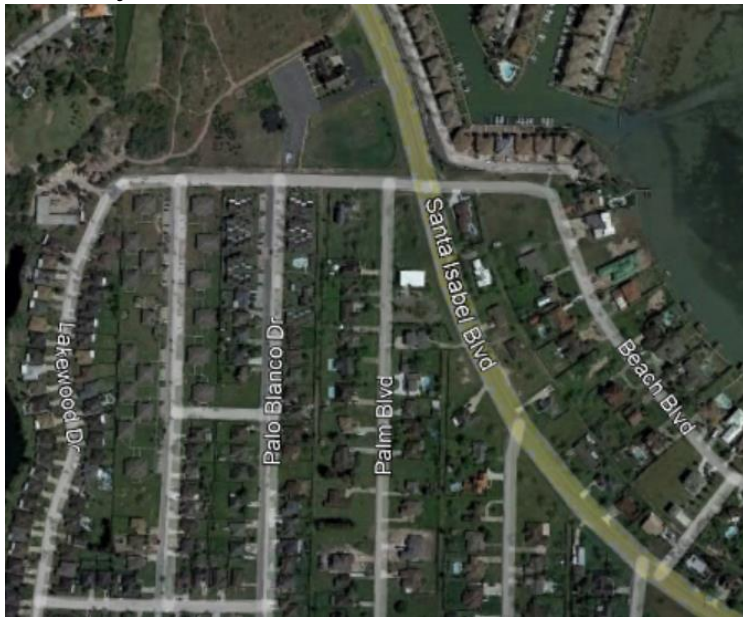
Drainage improvements SH 100: Regrade the existing drainage ditch that parallels State Highway 100 to increase capacity and reduce risk of flooding.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Laguna Vista
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102080800,
 121102080900
 Study Area (sq. mi.) 0.01



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$369,600	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Laguna Vista Action #8

FME ID: 151000022

FME Description

Drainage Improvements: Upgrade the drainage system on Holley Beach to increase capacity and reduce risk of flooding.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Laguna Vista
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102080800,
 121102080900
 Study Area (sq. mi.) 3.99



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$369,600	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Laguna Vista Action #9

FME ID: 151000023

FME Description

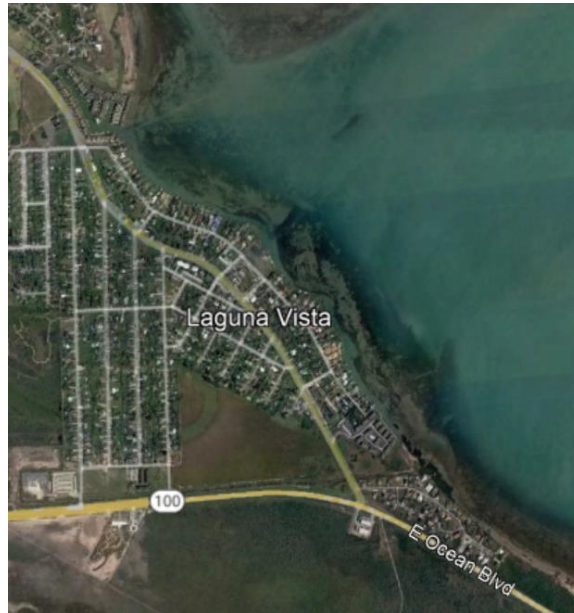
Drainage Improvements: Upgrade and harden drainage structure on Town-owned marina to increase capacity and reduce risk of damages.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Laguna Vista
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102080800,
 121102080900
 Study Area (sq. mi.) 0.51



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$554,400	Study Sponsor:	Laguna Vista
Estimated year to start:	2018	Entity with Oversight	Laguna Vista
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; Local Funds; Other Grants; Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Los Fresnos Action #13

FME ID: 151000024

FME Description

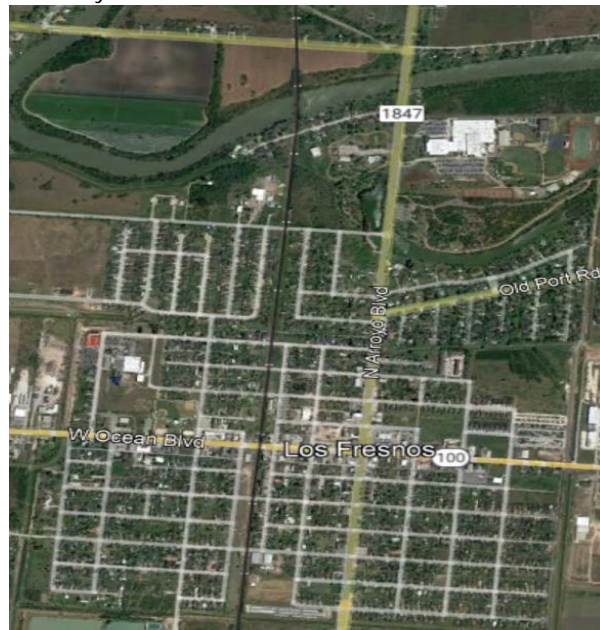
Upgrade culverts and install drainage improvements at various locations to increase capacity and reduce risk of flood damages. Purchase trailer mounted water trash pump to reduce or eliminate flooding. Drainage Improvement locations: Drainage Ditch South of Highway 100 causes flooding on East Fifth Street, East Sixth Street, East Seventh Street, East Eighth Street, East Ninth Street and East Tenth Street. South Nogal Street Causes Flooding on West First Street, West Second Street, West Third Street, Valle Alto Street & Bougainvillea Street, Jacqueline Street & North Canal Street Drain Pipe Collapse, Olmo Street from West Eighth Street to West Tenth Street, Holly Lane Drain Under Canal, Pasto Drive at California Road Drain Under Canal, and Resaca Escondido Drain Pipe Collapse. The following Resaca Crossings are Too Low: Henderson Road East Side, Henderson Road West Side, and Whipple Road West Side.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities	Los Fresnos
County/ Counties	Cameron
HUC 8	12110208
HUC 12	121102080800, 121102080900
Study Area (sq. mi.)	1.40



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$1,848,000	Study Sponsor:	Los Fresnos
Estimated year to start:	2018	Entity with Oversight	Los Fresnos
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; General Funds, Drainage Fee

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Port Isabel Action #19

FME ID: 151000027

FME Description

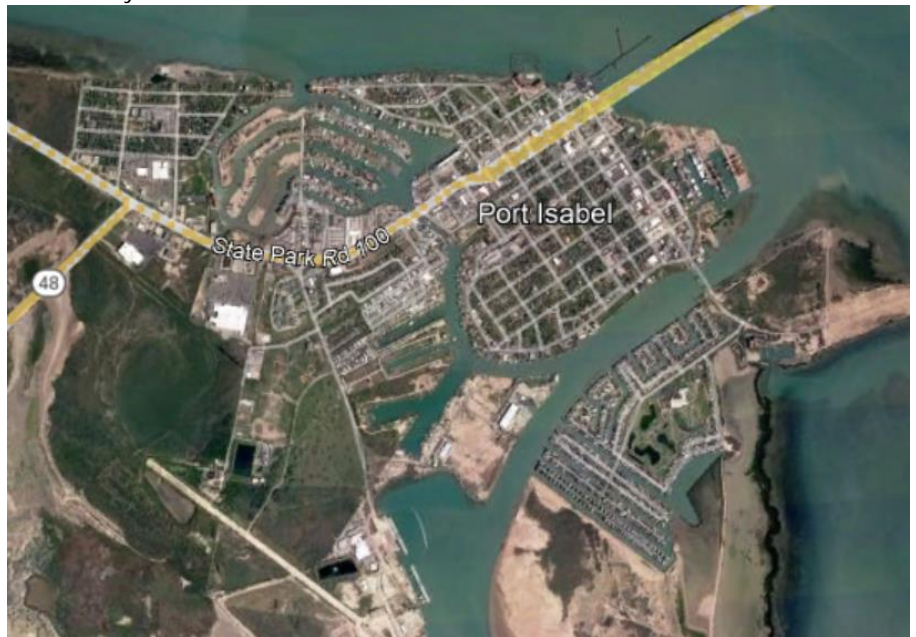
Elevate and widen coastal roads as well as evacuation routes to reduce risk of flood damages and maintain emergency access.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Port Isabel
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102081000,
 121102081000
 Study Area (sq. mi.) 2.72



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$554,400	Study Sponsor:	Los Fresnos
Estimated year to start:	2018	Entity with Oversight	Los Fresnos
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; General Funds

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Port Isabel Action #22

FME ID: 151000028

FME Description

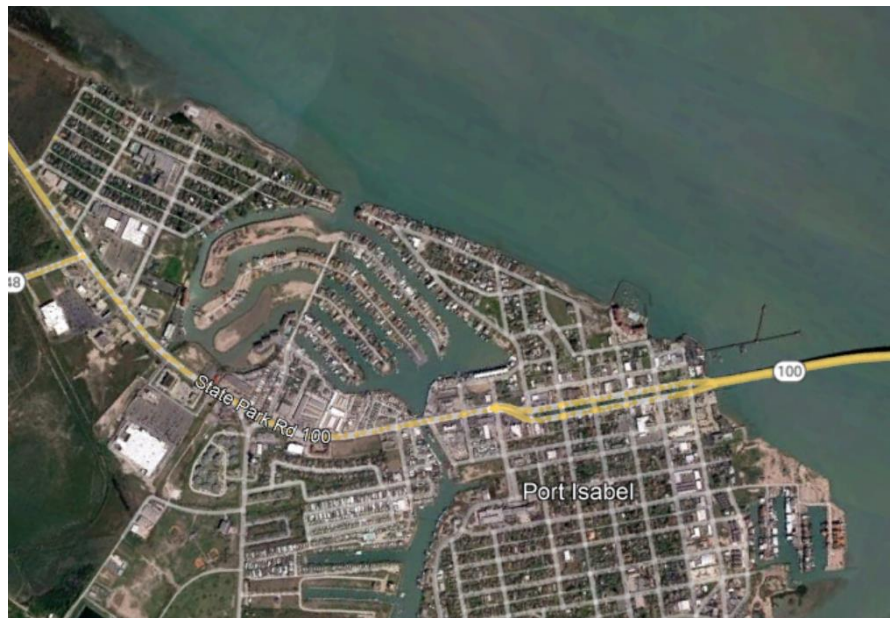
Build breakwater or similar shoreline protection for harbor.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Port Isabel
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102081000,
 121102081000
 Study Area (sq. mi.) 0.47



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$1,108,800	Study Sponsor:	Los Fresnos
Estimated year to start:	2018	Entity with Oversight	Los Fresnos
Time to complete?	2020	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	HMGP; General Funds

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Primera Action #2

FME ID: 15100029

FME Description

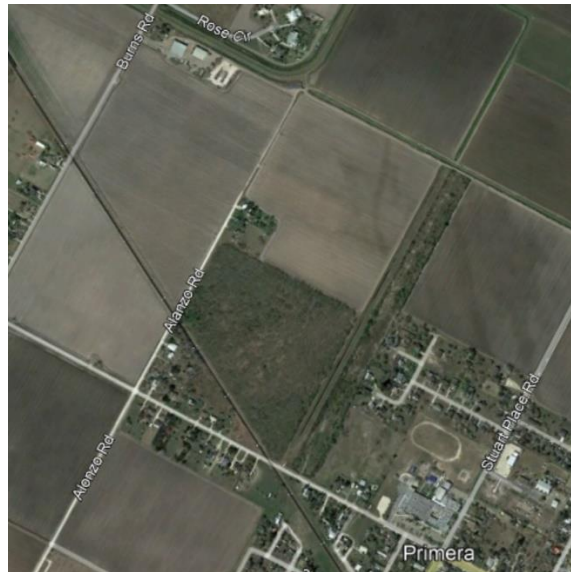
Construct a large retention/detention pond in the northwest part of town to hold water during heavy rain events.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Primera
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102080700
 Study Area (sq. mi.) 0.1



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$92,400	Study Sponsor:	Primera
Estimated year to start:	2018	Entity with Oversight:	Primera
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	Local Funds; HMGP; Cameron County Drainage District

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

South Padre Island #6

FME ID: 151000030

FME Description

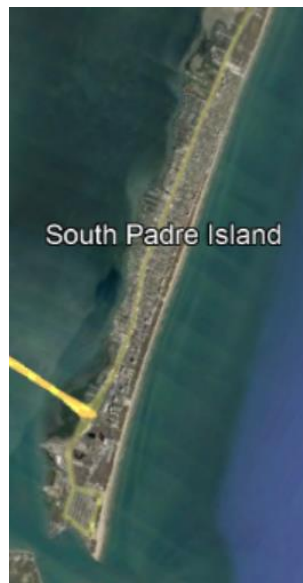
Upgrade undersized culverts throughout the Island to increase capacity and reduce flood risk.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities South Padre
 County/ Counties Cameron
 HUC 8 12110208
 HUC 12 121102081000
 Study Area (sq. mi.) 4.62



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$1,848,000	Study Sponsor:	South Padre Island
Estimated year to start:	2018	Entity with Oversight:	South Padre Island
Time to complete?	2020	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	HMGP; CDBG

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Dimmit County Master Drainage Study

FME ID: 151000031

FME Description

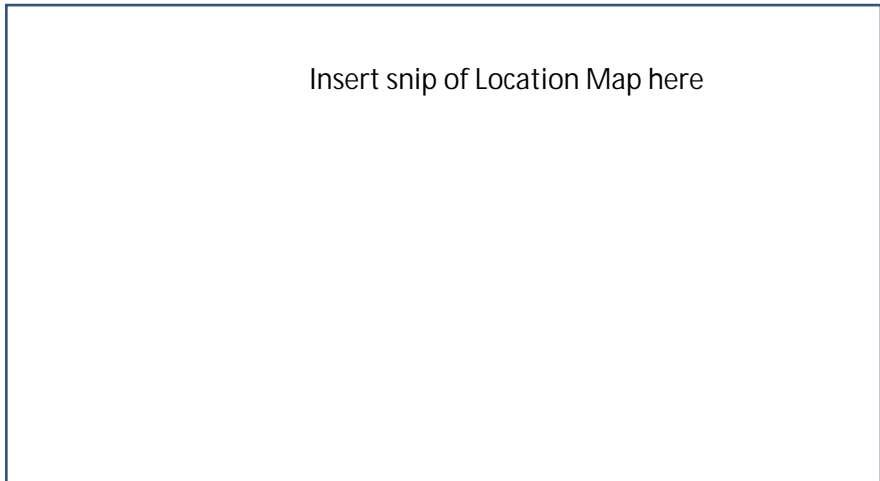
Develop Flood risk maps for the county of Dimmit and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Dimmit
HUC 8
HUC 12
Study Area (sq. mi.) 172.15



Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No Frequency:
Population at Risk # of structures inundated
Roadways flooded Yes No Miles inundated?
Critical Facilities Impacted Yes No Agricultural Land impacted Yes No
Notes:

Study Costs

Total Cost: \$250,000 Study Sponsor:
Estimated year to start: Entity with Oversight
Time to complete? Included in a CIP or other plan? Yes No
Funding Dedicated? Yes No (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Edwards County Master Drainage Study

FME ID: 151000032

FME Description

Develop Flood risk maps for the county of Edwards and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Edwards
HUC 8
HUC 12
Study Area (sq. mi.) 138.80

Insert snip of Location Map here

Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No Frequency:
Population at Risk # of structures inundated
Roadways flooded Yes No Miles inundated?
Critical Facilities Impacted Yes No Agricultural Land impacted Yes No
Notes:

Study Costs

Total Cost: \$250,000 Study Sponsor:
Estimated year to start: Entity with Oversight
Time to complete? Included in a CIP or other plan? Yes No
Funding Dedicated? Yes No (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

FM 491 and Mile 3 Study

FME ID: 151000033

FME Description

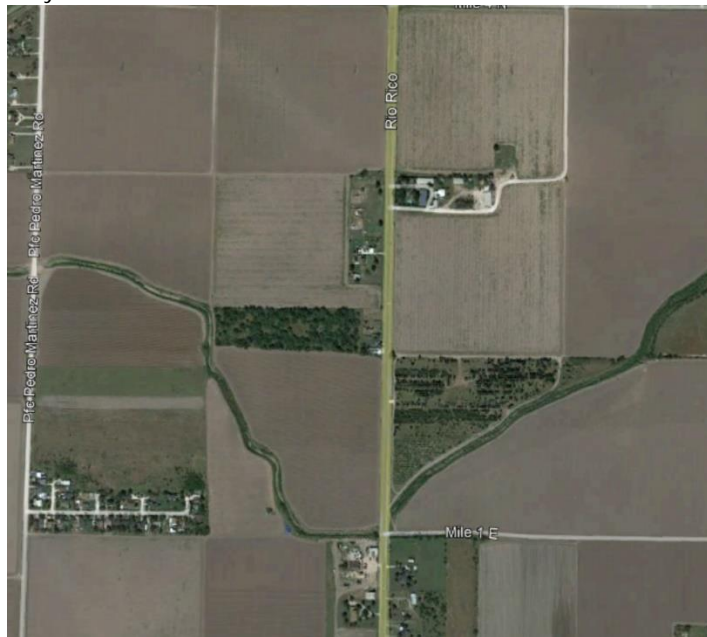
Local Drainage Improvements- County Road 1771

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Mercedes
 County/ Counties Hidalgo
 HUC 8 12110207
 HUC 12
 Study Area (sq. mi.) 0.81



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$60,000	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Pumps and Sumps Study

FME ID: 151000034

FME Description

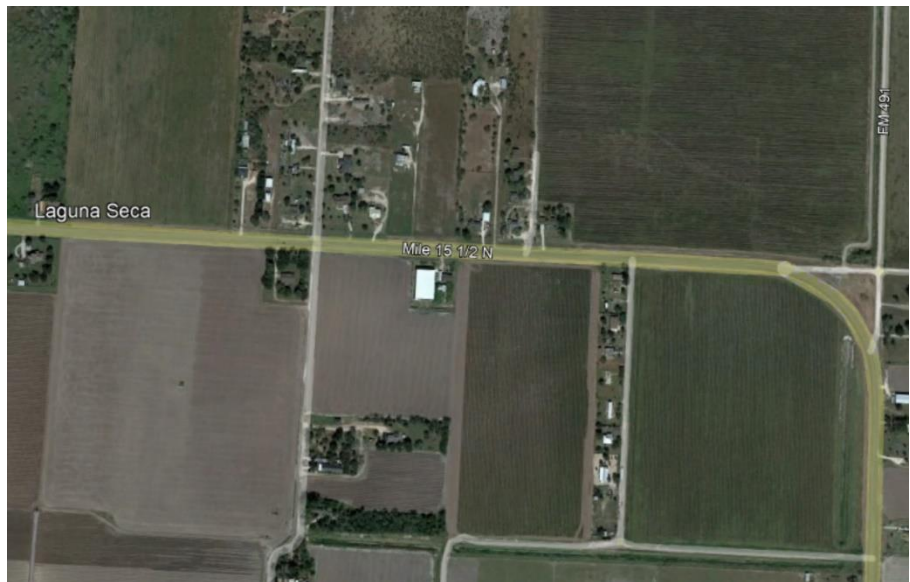
Pump Station H & Sump

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Hidalgo
HUC 8 12110207
HUC 12
Study Area (sq. mi.) 0.31



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$217,500	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Pumps and Sumps Study

FME ID: 151000035

FME Description

Pump Station I & Sump

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Hidalgo
HUC 8 12110207
HUC 12
Study Area (sq. mi.) 3.73



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$388,500	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Pumps and Sumps Study

FME ID: 151000036

FME Description

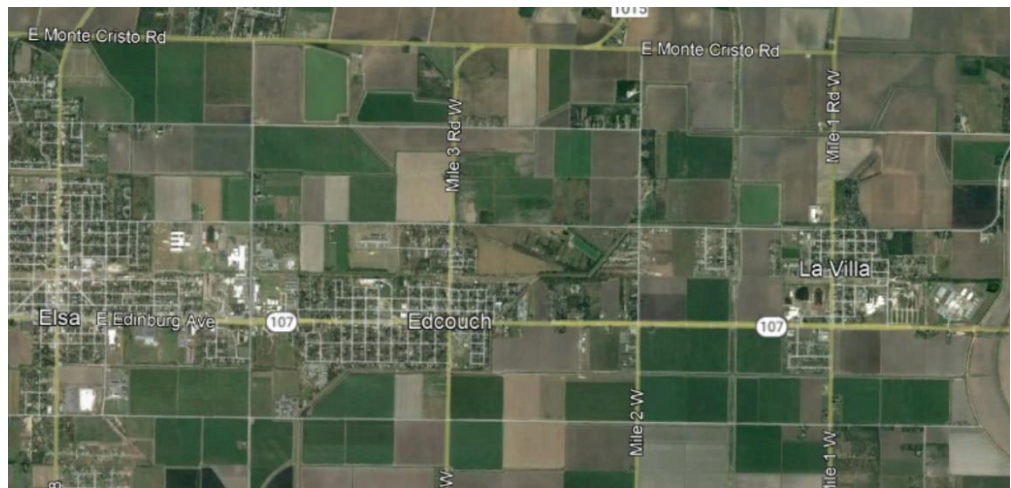
Pump Station J & Sump

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Hidalgo
HUC 8 12110207
HUC 12
Study Area (sq. mi.) 6.23



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$310,500	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Pumps and Sumps Study

FME ID: 151000037

FME Description

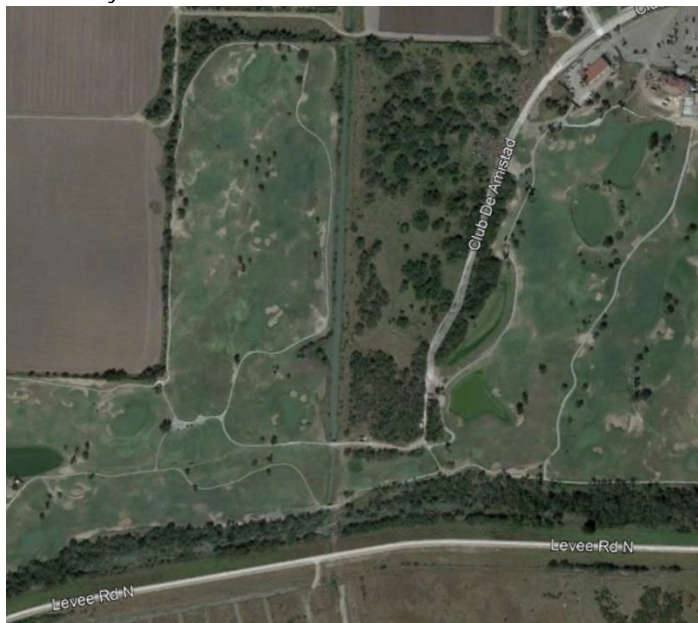
Pump Station K

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Hidalgo
HUC 8 12110207
HUC 12
Study Area (sq. mi.) 0.1



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$165,000	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Pumps and Sumps Study

FME ID: 151000038

FME Description

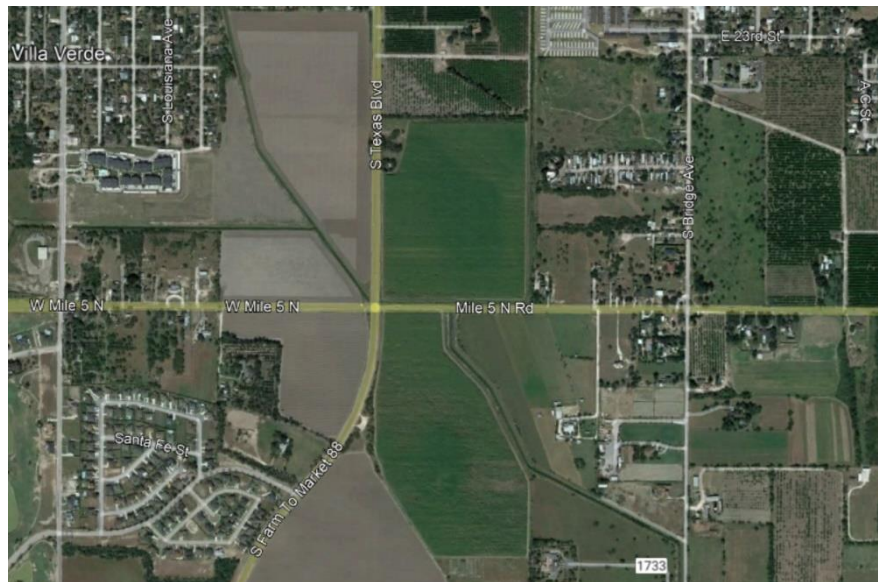
Pump Station L

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Hidalgo
HUC 8 12110207
HUC 12
Study Area (sq. mi.) 1.30



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$165,000	\$Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Lott Rd & Soderquist Study

FME ID: 151000039

FME Description

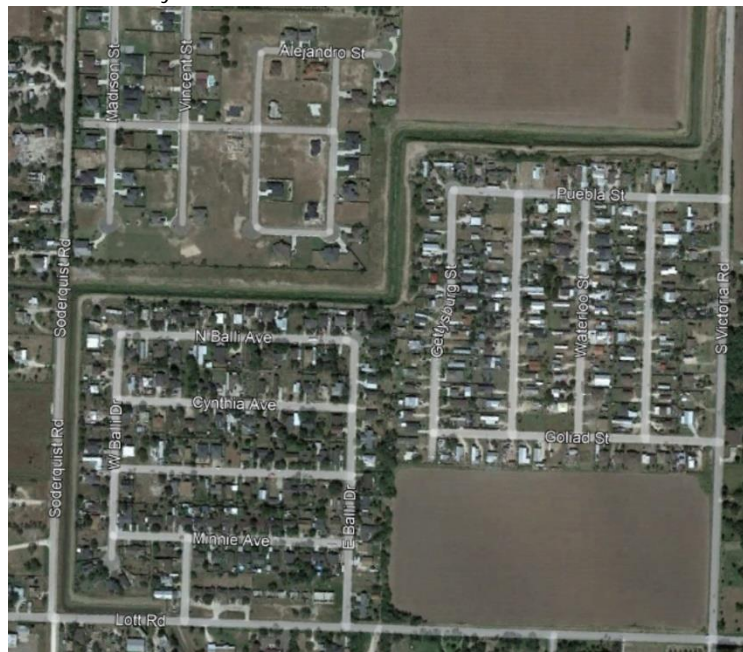
Local Drainage Improvements- North of Lott Road and East of Soderquist Rd.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Donna
 County/ Counties Hidalgo
 HUC 8 12110207
 HUC 12
 Study Area (sq. mi.) 0.27



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$190,500	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Mile 2 E & Expy 83 Study

FME ID: 151000040

FME Description

Local Drainage Improvements- North of Interstate 2 and West of Mile 2 1/2

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Mercedes
 County/ Counties Hidalgo
 HUC 8 12110207
 HUC 12
 Study Area (sq. mi.) 0.43



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$215,250	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

TX 88 & W Sugar Cane Dr Study

FME ID: 151000041

FME Description

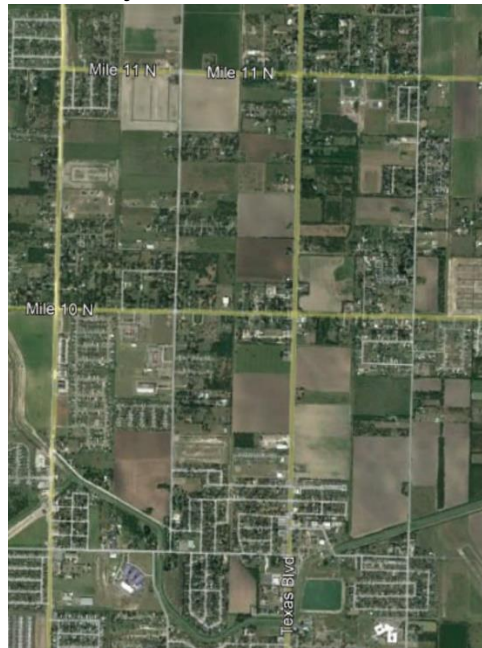
Channel Improvements- Ditch 17B2A1, Ditch 17B2A1 Detention West, Local Drainage Improvements (North of W Sugar Cane West of Ditch17B2A1), Ditch 17B2A1 Detention East, and Local Drainage Improvements (North of W Sugar Cane East of Ditch17B2A1)

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Weslaco
 County/ Counties Hidalgo
 HUC 8 12110207
 HUC 12
 Study Area (sq. mi.)



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$375,900	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
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- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Mile 11 N & Mile 6 W Study

FME ID: 151000042

FME Description

Channel Improvements- Ditch 17B2A1A, Channel Improvements- Ditch 7T,7T1, Local Drainage Improvements- West of Ditch17B2A1A, and Ditch 17B2A1 Detention West

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Weslaco
 County/ Counties Hidalgo
 HUC 8 12110207
 HUC 12
 Study Area (sq. mi.)



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$570,300	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Clark Rd & Mile 1 E Study

FME ID: 151000043

FME Description

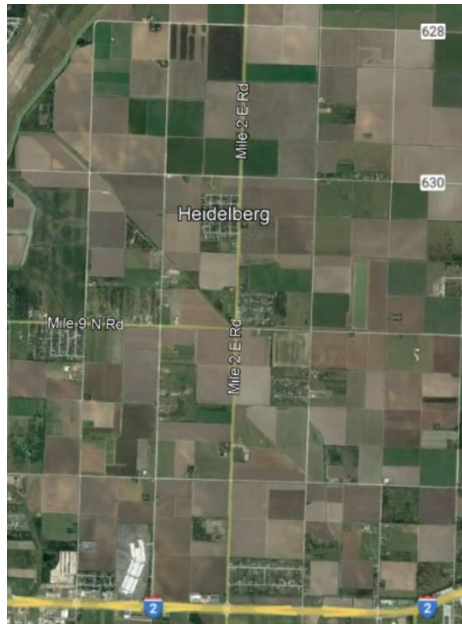
Channel Improvements- Ditch 19,19B,19H,23; Local Drainage Improvements-Los Laureles; Local Detention-Los Laureles; Local Drainage Improvements-Clark road and Mile 1 Road; and Bypass Channel and Sump Area for Pump Station

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Mercedes
 County/ Counties Hidalgo
 HUC 8 12110207
 HUC 12
 Study Area (sq. mi.) 12.3



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$1,526,550	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
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- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

International & E Mile 5 N Study

FME ID: 151000044

FME Description

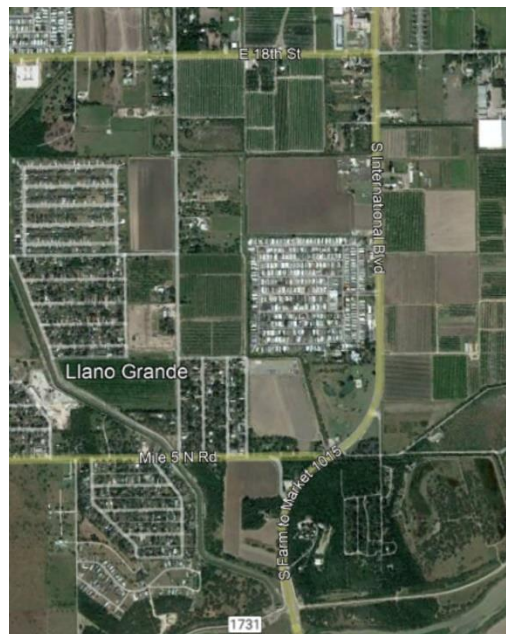
Channel Improvements just upstream of Ditch 35B; Culvert Improvements; Detention North of Llano Grande Lake Just West of 3 Mile Rd; 2- 130,000 GPM Pumps; Channel Improvements Ditch 34, 34B, 34BExt; Regional Detention; Bypass channel from Ditch 34; and Culvert Improvements-Ditch 34 Passing International Blvd.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Weslaco
 County/ Counties Hidalgo
 HUC 8 12110207
 HUC 12
 Study Area (sq. mi.) 1.71



Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No
 Population at Risk
 Roadways flooded Yes No
 Critical Facilities Impacted Yes No
 Notes:

Frequency:
 # of structures inundated
 Miles inundated?
 Agricultural Land impacted Yes No

Study Costs

Total Cost: \$1,093,500 Study Sponsor: HCDD1
 Estimated year to start: 2023 Entity with Oversight HCDD1
 Time to complete? 2025 Included in a CIP or other plan? Yes No
 Funding Dedicated? Yes No (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
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- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

S Alamo and Rancho Blanco Study

FME ID: 151000045

FME Description

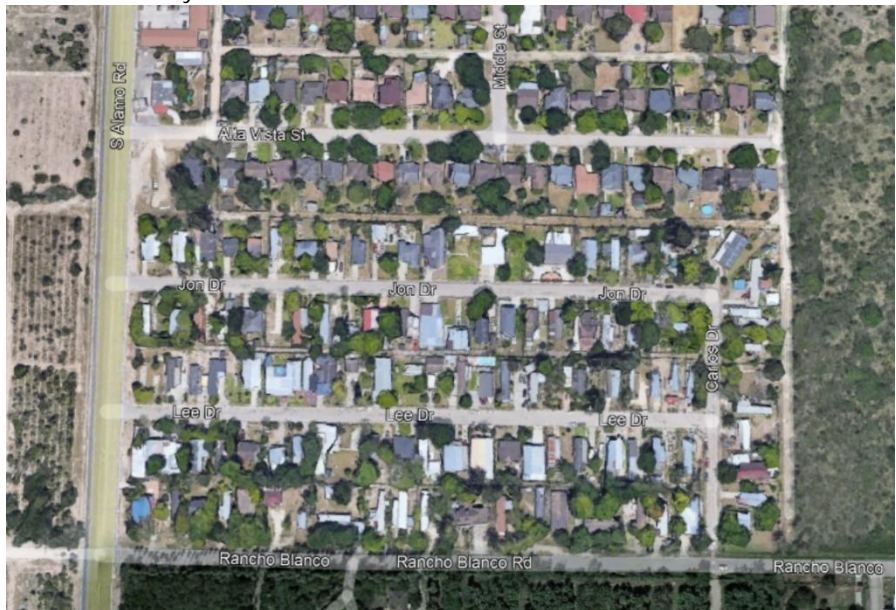
Local Drainage Improvements-Storm Drain and Detention North of Rancho Blanco and east of S. Alamo Road

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Alamo
 County/ Counties Hidalgo
 HUC 8 12110207
 HUC 12
 Study Area (sq. mi.) 0.03



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$525,750	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

FM 1423 and Main Grove Study

FME ID: 151000046

FME Description

Local Drainage Improvements- Main Street, North Street

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Donna
 County/ Counties Hidalgo
 HUC 8 12110207
 HUC 12
 Study Area (sq. mi.) 0.12



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$107,100	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

FM 1423 and Nolana Study

FME ID: 151000047

FME Description

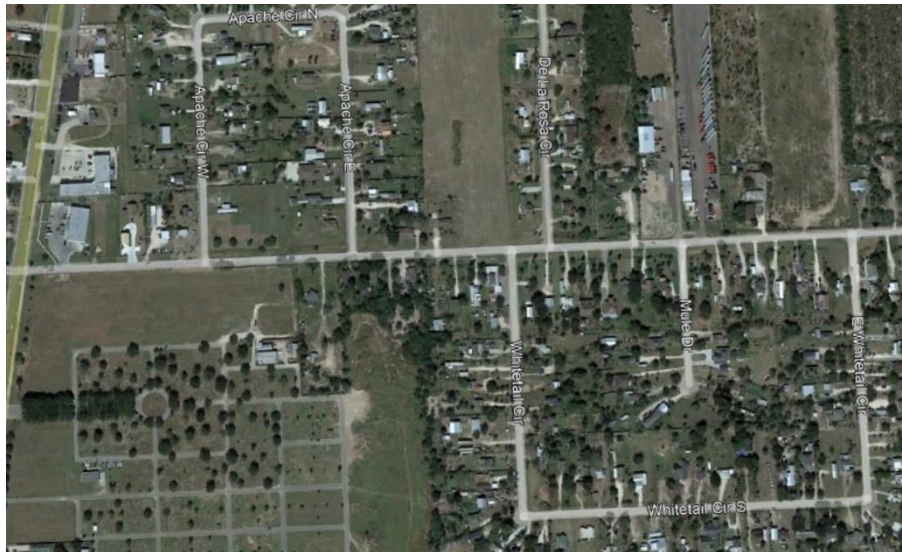
Local Drainage Improvements--Storm Drain and Detention South of Earling Road West of Val Verde Street

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Donna
 County/ Counties Hidalgo
 HUC 8 12110207
 HUC 12
 Study Area (sq. mi.) 0.38



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$321,000	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

N Tower Study

FME ID: 151000048

FME Description

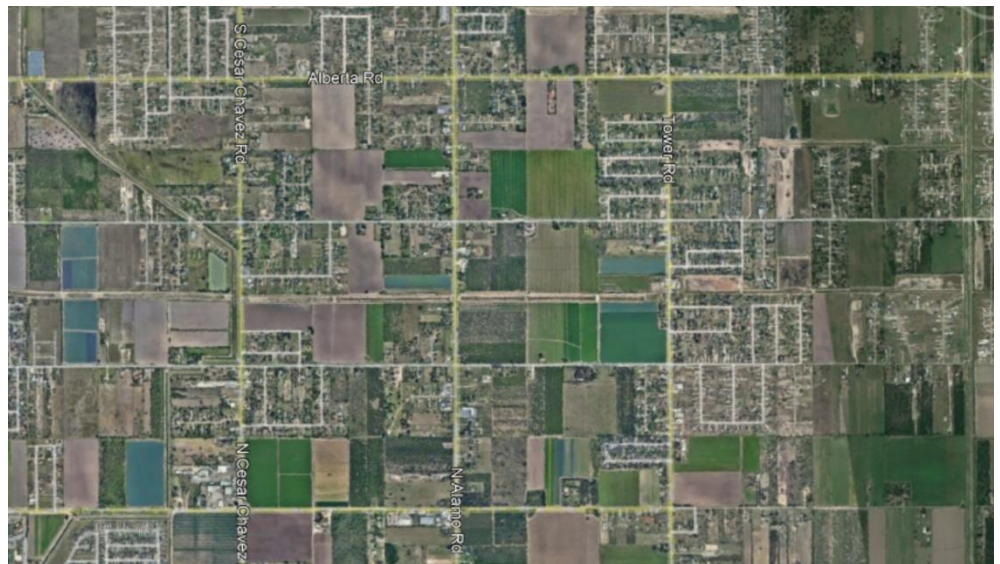
Local Drainage Improvements-Storm Drain North of Minnesota Road

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Alamo
 County/ Counties Hidalgo
 HUC 8 12110207
 HUC 12
 Study Area (sq. mi.)



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$201,000	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Dillon and Roosevelt Study

FME ID: 151000049

FME Description

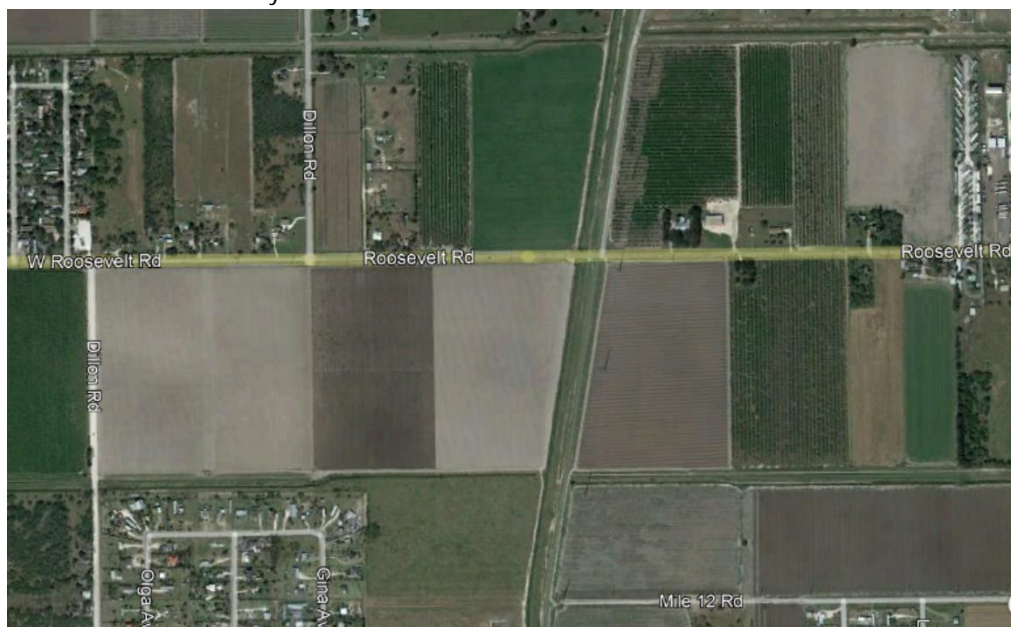
Local Drainage Improvements-Just North of E Roosevelt Rd

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Donna
 County/ Counties Hidalgo
 HUC 8 12110207
 HUC 12
 Study Area (sq. mi.) 0.68



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$216,600	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Canton and Dillon Study

FME ID: 151000050

FME Description

Local Drainage Improvements-Along Canton Road and adjacent neighborhoods

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Donna
 County/ Counties Hidalgo
 HUC 8 12110207
 HUC 12
 Study Area (sq. mi.) 1.1



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$454,050	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

FM 1925 and Mile 4 Study

FME ID: 151000051

FME Description

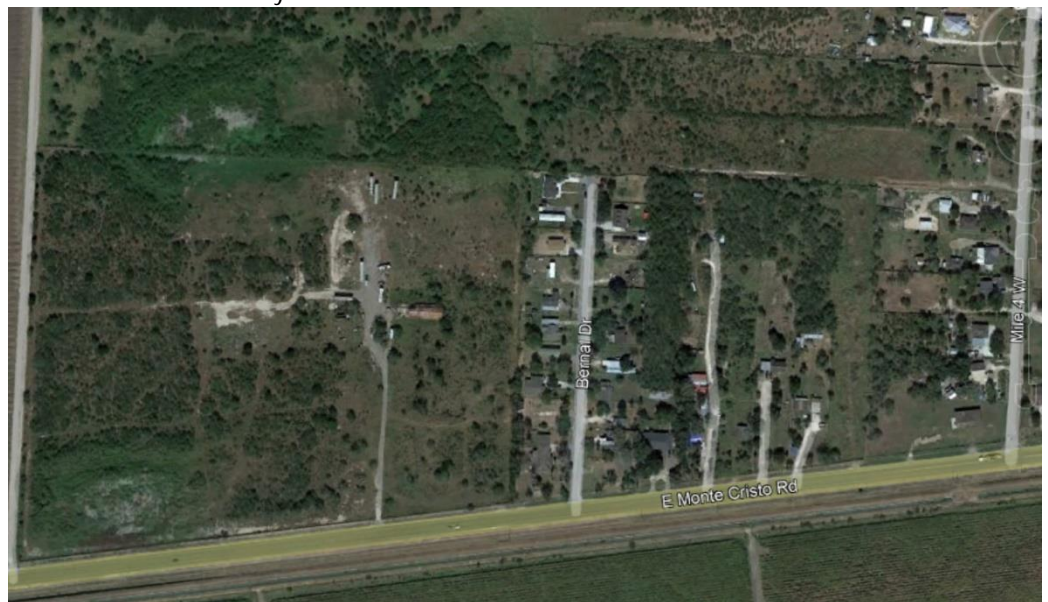
Local Drainage Improvements-Along Bernal Court

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Donna
 County/ Counties Hidalgo
 HUC 8 12110207
 HUC 12
 Study Area (sq. mi.) 0.16



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$143,550	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Pumps and Sumps Study

FME ID: 151000052

FME Description

Pump Station A & Sump

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Hidalgo
HUC 8 12110207
HUC 12
Study Area (sq. mi.) 0.1



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$213,000	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Pumps and Sumps Study

FME ID: 151000053

FME Description

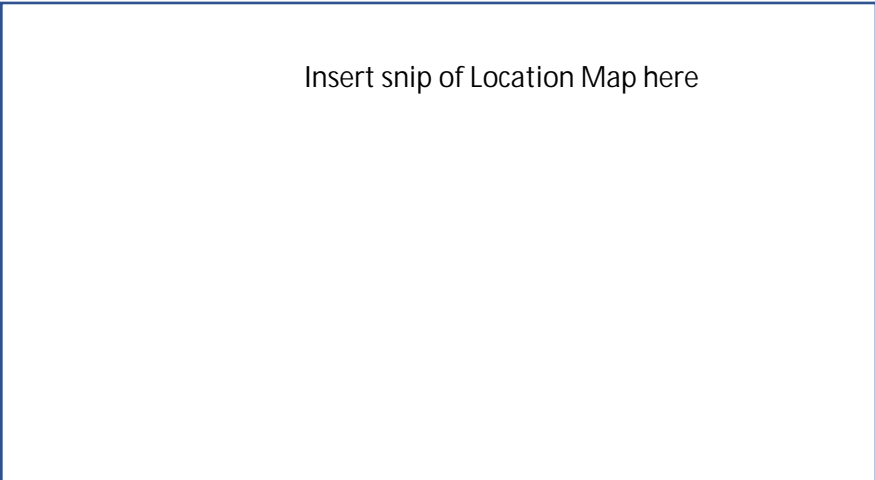
Pump Station B & Sump

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Hidalgo
HUC 8 12110207
HUC 12
Study Area (sq. mi.)



Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No Frequency:
Population at Risk # of structures inundated
Roadways flooded Yes No Miles inundated?
Critical Facilities Impacted Yes No Agricultural Land impacted Yes No
Notes:

Study Costs

Total Cost: \$244,500 Study Sponsor: HCDD1
Estimated year to start: 2023 Entity with Oversight HCDD1
Time to complete? 2025 Included in a CIP or other plan? Yes No
Funding Dedicated? Yes No (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Pumps and Sumps Study

FME ID: 151000055

FME Description

Pump Station D

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Hidalgo
HUC 8 12110207
HUC 12
Study Area (sq. mi.) 4.67



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$165,000	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Pumps and Sumps Study

FME ID: 151000056

FME Description

Pump Station E & Sump

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Hidalgo
HUC 8 12110207
HUC 12
Study Area (sq. mi.) 3.45



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$124,500	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Pumps and Sumps Study

FME ID: 151000057

FME Description

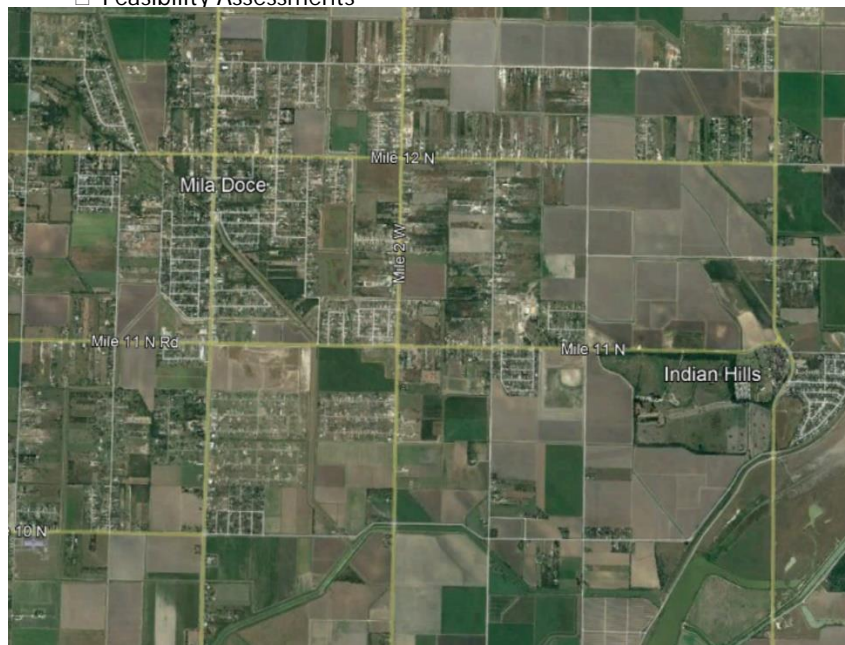
Pump Station F & Sump

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Hidalgo
HUC 8 12110207
HUC 12
Study Area (sq. mi.) 12.4



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$480,000	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

FME ID: 151000058

Pumps and Sumps Study

FME Description

Pump Station G & Sump

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Hidalgo
HUC 8 12110207
HUC 12
Study Area (sq. mi.) 2.71



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$271,500	Study Sponsor:	HCDD1
Estimated year to start:	2023	Entity with Oversight	HCDD1
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Sullivan City Master Drainage Study

FME ID: 151000059

FME Description

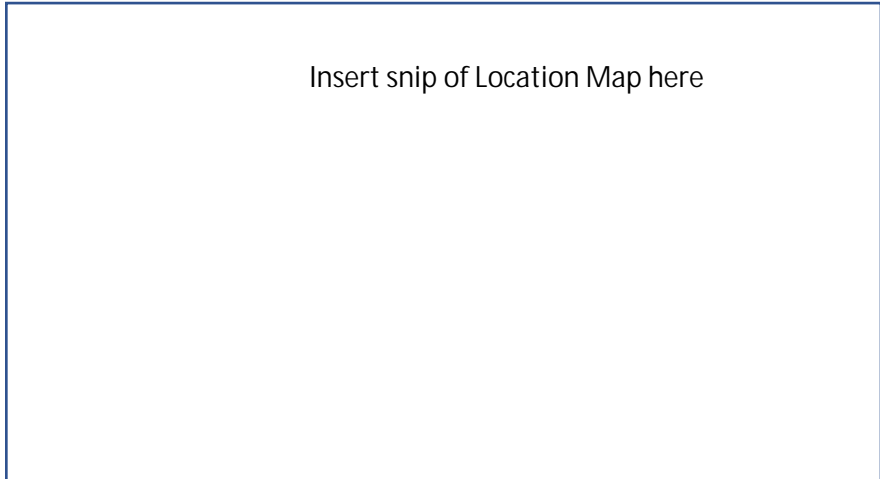
Develop Flood risk maps for the city of Sullivan City and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Sullivan City
 County/ Counties Hidalgo
 HUC 8 12110208
 HUC 12
 Study Area (sq. mi.) 3.60



Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No Frequency:
 Population at Risk # of structures inundated
 Roadways flooded Yes No Miles inundated?
 Critical Facilities Impacted Yes No Agricultural Land impacted Yes No
 Notes:

Study Costs

Total Cost: \$250,000 Study Sponsor:
 Estimated year to start: Entity with Oversight
 Time to complete? Included in a CIP or other plan? Yes No
 Funding Dedicated? Yes No (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Alton MDP - West Mile 5 Road and Louisiana Street Alternative 2

FME ID: 151000060

FME Description

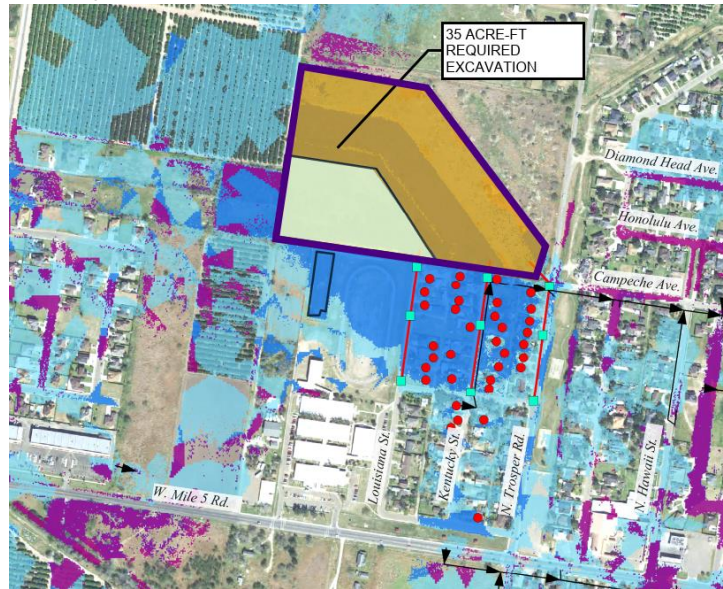
Alternative 2 is designed to remove structures from the 10-year floodplain. Approximately 35 acre-feet of volume is proposed to be excavated. construction consists of 1,940 LF of 36-inch diameter pipe sloped at 0.2% along Louisiana, Kentucky, and Trospen Road out falling directly into the retention pond, 3 headwalls and approximately 9 inlets. Additional inlets and smaller pipe may be needed to catch low lying areas that pond between the houses or regrading with swales to take runoff to the street.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Flood preparedness studies
- Feasibility Assessments

Study Area

City/ Cities Alton
 County/ Counties Hidalgo
 HUC 8 12110207,
 12110208
 HUC 12 121102080200,
 121102080300
 Study Area (sq. mi.) 0.1



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$322,898	Study Sponsor:	City of Alton
Estimated year to start:	2023	Entity with Oversight	City of Alton
Time to complete?	2025	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Alton MDP - North Inspiration Road and West St. Jude Avenue Alternative 2

FME ID: 151000062

FME Description

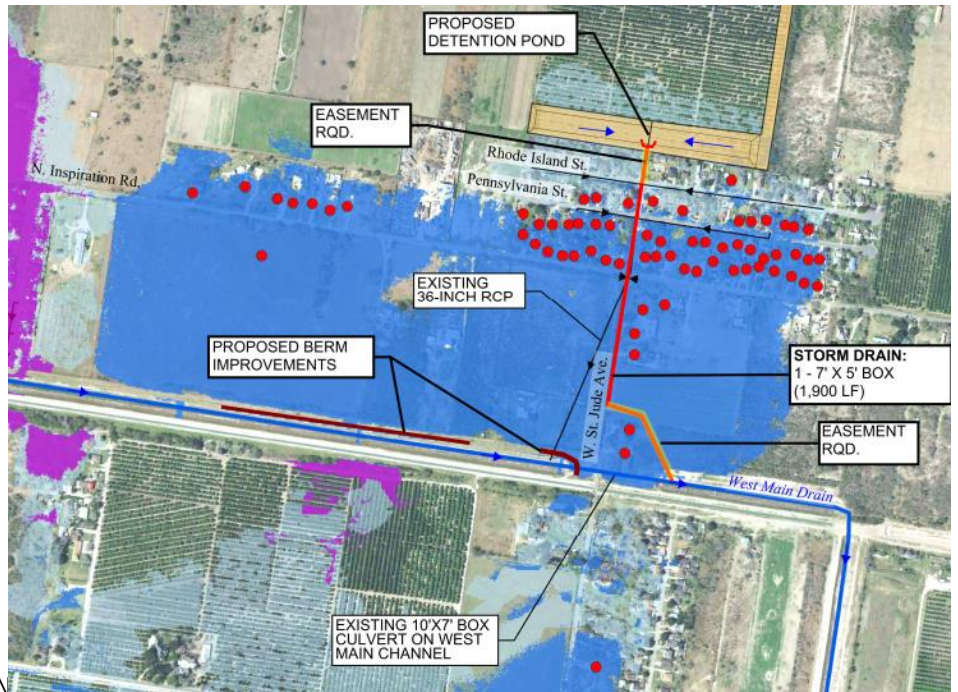
Alternative 2, is designed to remove structures from the 25-year floodplain and more frequent storms. This alternative consists of upsizing the storm drain under West St Jude Avenue. The trunk line will consist of 1,900 LF of a single 7' X 5' reinforced concrete box sloped at 0.5% from the area just west of the neighborhood on W. St. Jude Avenue to the West Main Drain Channel, downstream (north) of the existing 10' X 7' box culvert.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities	Alton
County/ Counties	Hidalgo
HUC 8	12110207, 12110210
HUC 12	121102080200, 121102080300
Study Area (sq. mi.)	0.16



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Population at Risk	Yes <input type="checkbox"/> No <input type="checkbox"/>	# of structures inundated	Yes <input type="checkbox"/> No <input type="checkbox"/>
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$422,690	Study Sponsor:	City of Alton
Estimated year to start:	2023	Entity with Oversight	City of Alton
Time to complete?	2025	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Alton MDP - West Mile 5 and South Glasscock Road Alternative 3

FME ID: 151000063

FME Description

Alternative 3 is simply the buyout and removal of 23 properties on the north side of Buchanan from the 10-year floodplain. Once structures are removed, the vacant land can be excavated and used as a park/regional retention pond.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities	Alton
County/ Counties	Hidalgo
HUC 8	12110207, 12110213
HUC 12	121102080200, 121102080300
Study Area (sq. mi.)	0.23



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$249,480	Study Sponsor:	City of Alton
Estimated year to start:	2023	Entity with Oversight	City of Alton
Time to complete?	2025	Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Weslaco Stormwater Improvement Plan - Pleasantview Drive and 11th Street

FME ID: 151000064

FME Description

Installation of 3,220 LF of new storm drain system consisting of two – 8' x 4' RCBs along Mile 3 ½.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Weslaco
 County/ Counties Hidalgo
 HUC 8 12110207,
 12110228
 HUC 12 121102080100,
 121102080300
 Study Area (sq. mi.) 0.22



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$819,390	Study Sponsor:	City of Weslaco
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Weslaco Stormwater Improvement Plan - Mile 10 N and Mile 5 ½ W

FME ID: 151000065

FME Description

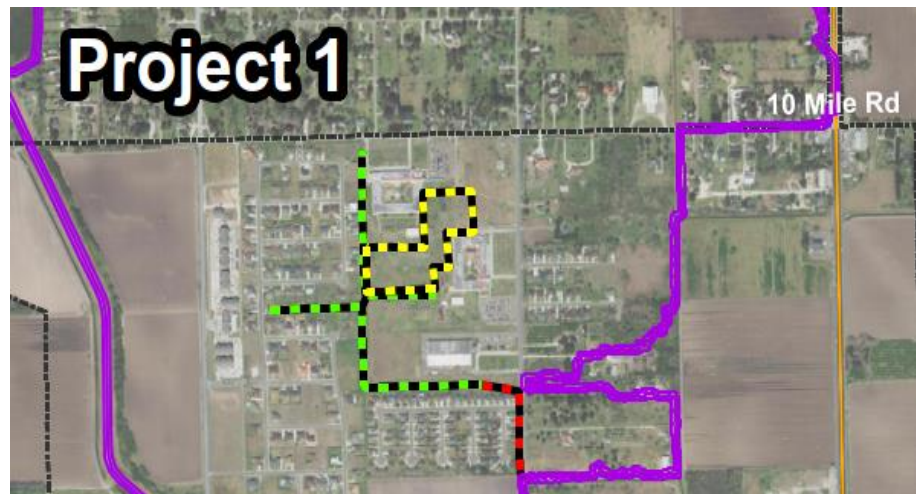
Construction of an 8 acre detention pond, with approximately 4,000 LF of channel widening along the back of the neighborhoods and between the Justice Raul A. Gonzalez Elementary School and Joe Calvillo Jr Career & Technology Education Complex; replacement of existing undersized channel culvert with two – 8’ x 5’ reinforced concrete boxes (RCBs), and adding two – 8’ x 5’ RCBs to connect the existing drainage ditches to the drain channel system on the east.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities	Weslaco
County/ Counties	Hidalgo
HUC 8	12110207, 12110230
HUC 12	121102080100, 121102080300
Study Area (sq. mi.)	0.40



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$666,151	Study Sponsor:	City of Weslaco
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Weslaco Stormwater Improvement Plan - South International Boulevard and Business 83

FME ID: 151000066

FME Description

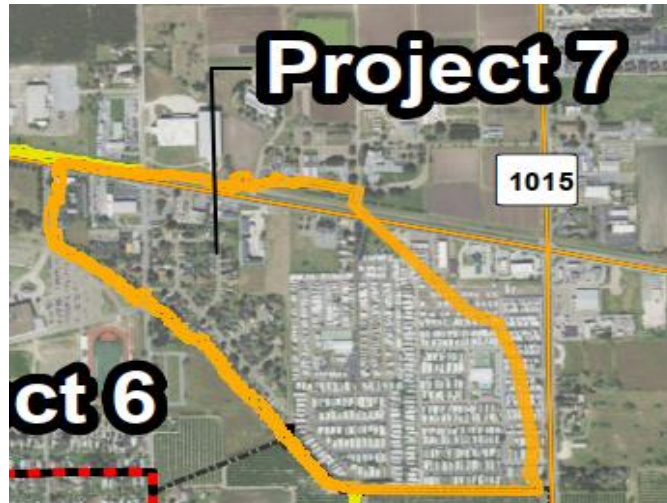
Replacement of 48 – inch culverts at two roadway crossings with 6’ x 4’ RCBs.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Weslaco
 County/ Counties Hidalgo
 HUC 8 12110207,
 12110231
 HUC 12 121102080100,
 121102080300
 Study Area (sq. mi.) 0.39



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$14,071	Study Sponsor:	City of Weslaco
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Weslaco Stormwater Improvement Plan - Texas Boulevard to Airport Drive, South of Business 83

FME ID: 151000067

FME Description

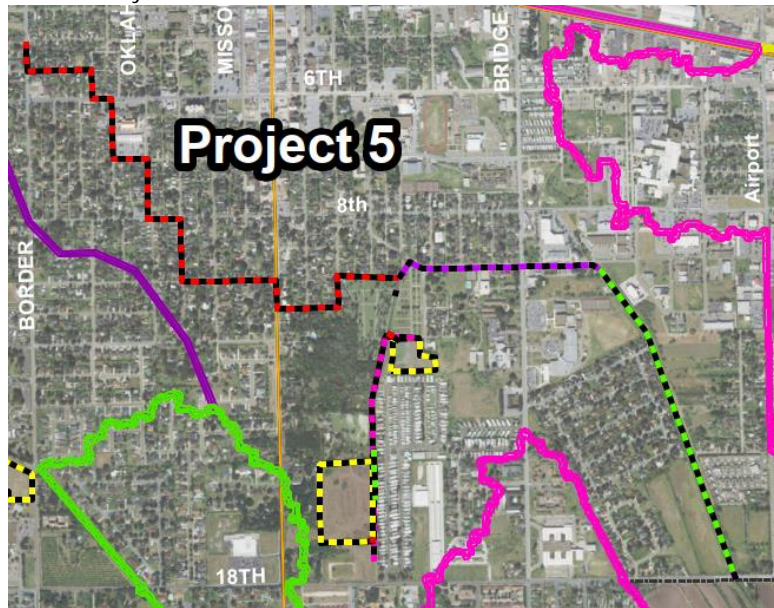
Construction of two detention ponds, 10 acres near Texas Boulevard and 18th Street and 3 acres south of Dawson Street, a berm, approximately 5,400 LF of channel widening and extension, and installation of an 8' x 4' RCB storm drain system near Border

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Weslaco
 County/ Counties Hidalgo
 HUC 8 12110207,
 12110232
 HUC 12 121102080100,
 121102080300
 Study Area (sq. mi.) 1.34



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$6,597,680	Study Sponsor:	City of Weslaco
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Weslaco Stormwater Improvement Plan - West Weslaco

FME ID: 151000068

FME Description

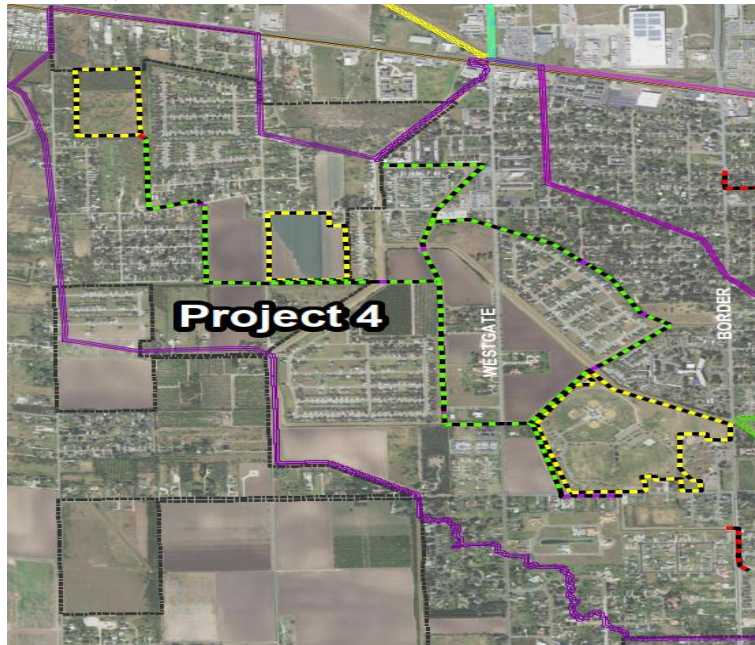
The Study is located just west of Border Avenue, between US 83 and Zelma Street. Construction of three detention ponds, 18 acres east of Vaughn Road and Midway Road, 26 acres near West 6th Street and Milano Road and 60 acres at Harlon Block Sports Complex, approximately 17,000 LF of channel widening connecting the ponds, and installation of approximately 4500 LF of large (8' x 4', 8' x 5', 8' x 6') RCB storm drain system to improve conveyance along the channels to the ponds.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Weslaco
 County/ Counties Hidalgo
 HUC 8 12110207,
 12110233
 HUC 12 121102080100,
 121102080300
 Study Area (sq. mi.) 2.00



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$5,595,880	Study Sponsor:	City of Weslaco
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

FME ID: 151000069

Weslaco Stormwater Improvement Plan - Westgate Drive and Sugar Cane Drive

FME Description

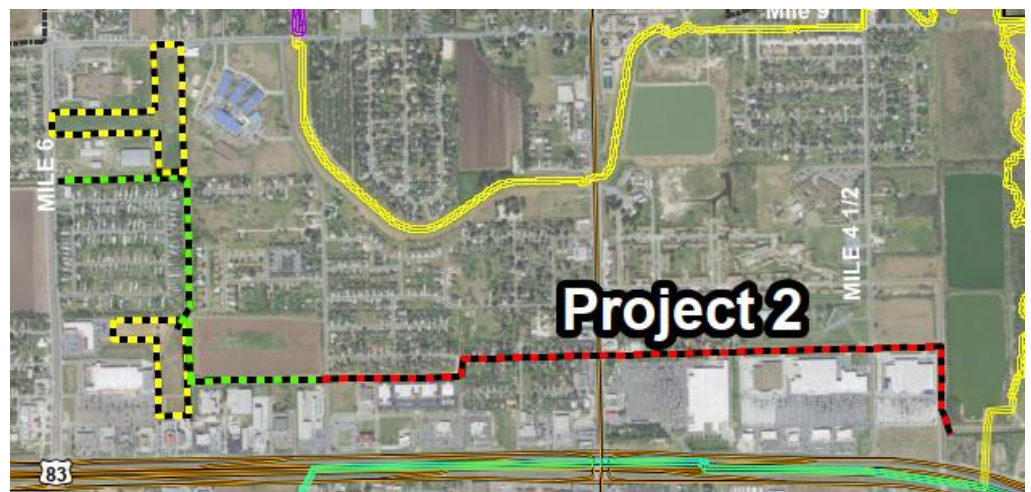
Construction of two detention ponds, 11 acres near Clecker-Heald Elementary School and 8 acres behind the commercial properties north of Interstate 2, approximately 4,500 LF of channel widening connecting the two ponds, addition of a new 42-inch reinforced concrete pipe (RCP) culvert east of Border Avenue, and installation of approximately 5,600 LF of an 8' x 4' RCB storm drain system along West Paisano Lane and East Ballard Street.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Flood preparedness studies
- Feasibility Assessments

Study Area

City/ Cities	Weslaco
County/ Counties	Hidalgo
HUC 8	12110207, 12110234
HUC 12	121102080100, 121102080300
Study Area (sq. mi.)	1.58



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$1,664,860	Study Sponsor:	City of Weslaco
Estimated year to start:		Entity with Oversight	City of Weslaco
Time to complete?		Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Precinct 4 MDP - Risk Area A at Mile 8.5 Rd. & Ware Rd.

FME ID: 151000071

FME Description

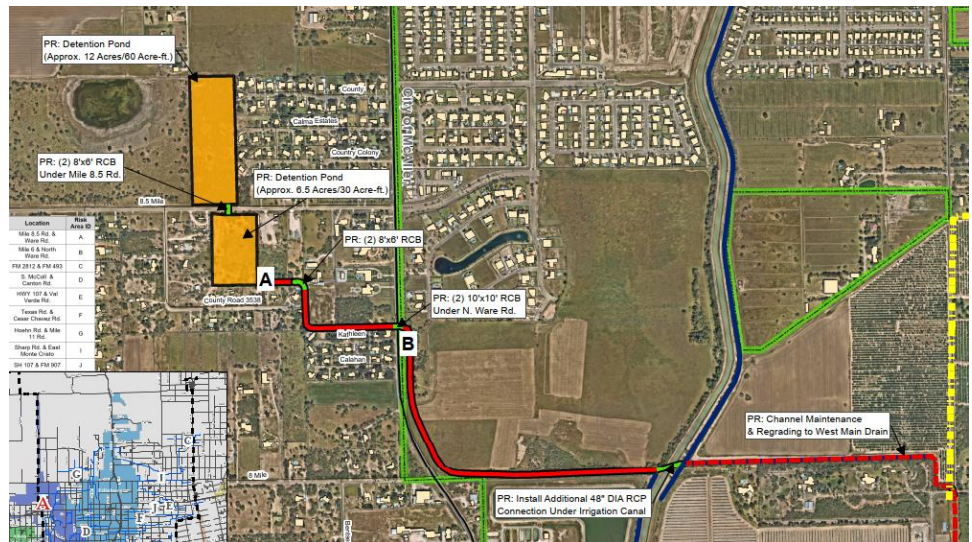
Approximately 1 mile of proposed channel improvements. Proposed culverts. Proposed Detention Ponds with pond north of Mile 8.5 Rd. to collect runoff from the west and has an approximate footprint of 12 acres and storage capacity of 60 acre-ft and will outfall south towards the pond south of Mile 8.5 Rd.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Flood preparedness studies
- Feasibility Assessments

Study Area

City/ Cities	
County/ Counties	Hidalgo
HUC 8	12110207, 12110279
HUC 12	121102080400, 121102070100, 121102080200
Study Area (sq. mi.)	0.79



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$2,984,850	Study Sponsor:	Hidalgo County Precinct 4
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 4
Time to complete?	2025	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Precinct 4 MDP - Risk Area B at Mile 6 & North Ware Rd.

FME ID: 151000072

FME Description

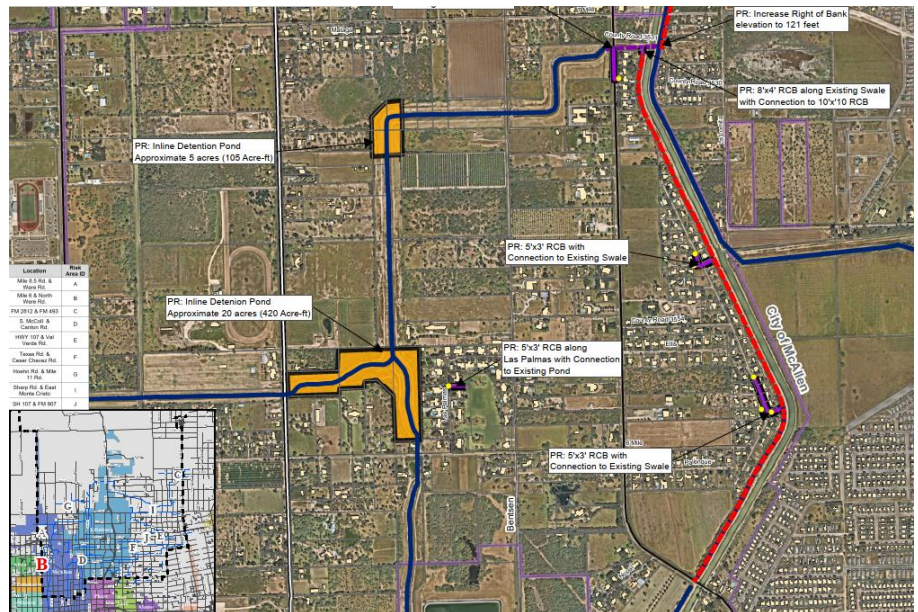
Regional Detention Facilities with a pond footprint of 25 acres along the Existing HCDD1 West Main Drain. Storm Drain and Local Drainage Improvements. Channel maintenance.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities	
County/ Counties	Hidalgo
HUC 8	12110207, 12110280
HUC 12	121102080400, 121102070100, 121102080200, 121102080200
Study Area (sq. mi.)	0.15



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$4,076,320	Study Sponsor:	Hidalgo County Precinct 4
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 4
Time to complete?	2025	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Precinct 4 MDP - Risk Area C at FM 2812 & FM 493

FME ID: 151000073

FME Description

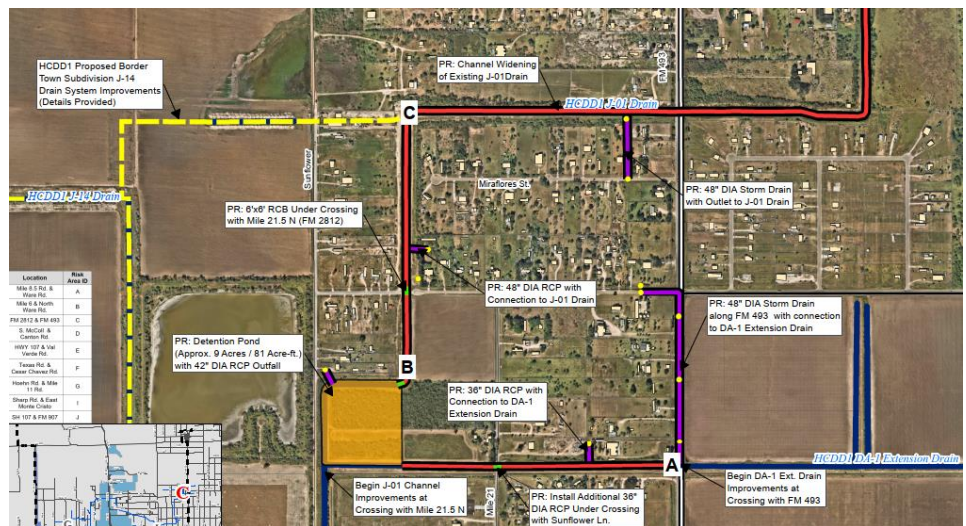
Channel Improvements (Widening & Regrading) to Existing J-01 Drain with approximately 1.5 miles of proposed improvements. Channel Improvements (Channel Maintenance & Flowline Regrading) to Existing DA-1 Ext. Drain with approximately 0.4 miles of proposed improvements. Proposed detention pond will have an approximate footprint of 9 acres and storage capacity of 90 acre-ft. Grate inlets & proposed storm drain channel maintenance & debris removal.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities	
County/ Counties	Hidalgo
HUC 8	12110207, 12110281
HUC 12	121102080400, 121102070100, 121102080200, 121102080200
Study Area (sq. mi.)	3.23



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding: # of structures inundated	
Population at Risk		Miles inundated?	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>		

Notes:

Study Costs

Total Cost:	\$1,183,050	Study Sponsor:	Hidalgo County Precinct 4
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 4
Time to complete?	2025	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Precinct 4 MDP - Risk Area D at S. McColl & Canton Rd.

FME ID: 151000074

FME Description

Channel Improvements (Widening & Regrading) to Existing McAllen Lateral & North Main Drain with approximately 2.25 miles of proposed improvements from S McColl St. to State Highway 107. Crossings at W Canton Rd., W Freddy Gonzalez Dr., and W Sprague St. were all evaluated up to the 25-year design storm criteria for upsizing evaluation.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

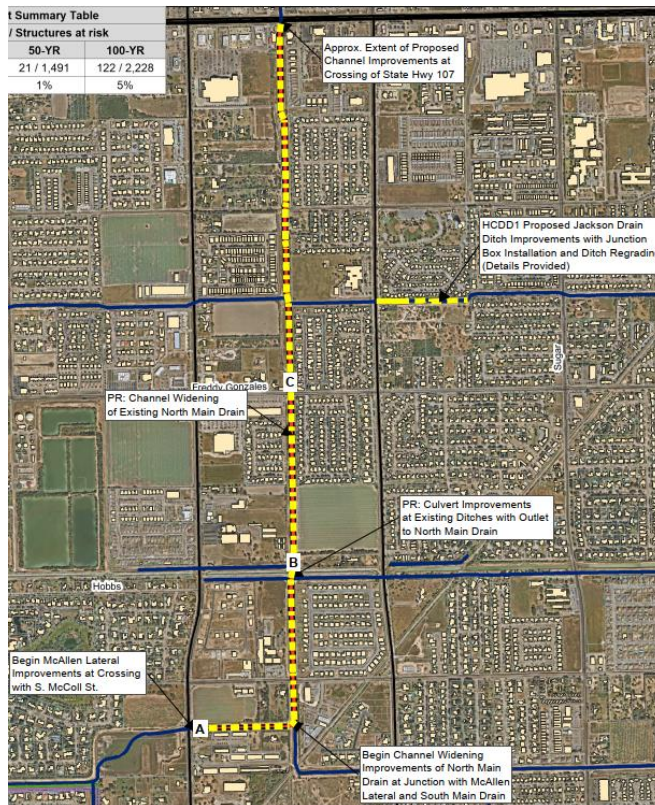
City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,
12110282

HUC 12 121102080400,
121102070100,
121102080200,
121102080200

Study Area (sq. mi.) 1.40



Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No

Population at Risk Yes No

Roadways flooded Yes No

Critical Facilities Impacted Yes No

Notes:

Study Costs

Total Cost: \$953,700

Estimated year to start: 2023

Time to complete? 2025

Funding Dedicated? Yes No

Study Sponsor: Hidalgo County Precinct 4

Entity with Oversight: Hidalgo County Precinct 4

Included in a Hazard Mitigation Action Plan or other plan? Yes No

(Potential) Source of Funding

FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Precinct 4 MDP - Risk Area E at Hwy 107 & Val Verde Rd.

FME ID: 151000075

FME Description

Channel Improvements with approximately 0.3 miles of proposed improvements. Proposed detention pond north of Tex-Mex Rd. and east of S 87th St. has an approximate footprint of 4.25 acres and capacity of 20 acre-ft. Grate Inlets and Proposed Storm Drain 5'x5' grate inlets spaced along every 500' of storm drain with a 4'x2' RCB along S 85th St.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Hidalgo
HUC 8 12110207,
12110283
HUC 12 121102070100,
121102080200,
121102080400,
Study Area (sq. mi.) 0.1



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$747,450	Study Sponsor:	Hidalgo County
Estimated year to start:	2023	Entity with Oversight	Hidalgo County
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, Local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Precinct 4 MDP - Risk Area F at Texas Rd. & Cesar Chavez Rd.

FME ID: 151000076

FME Description

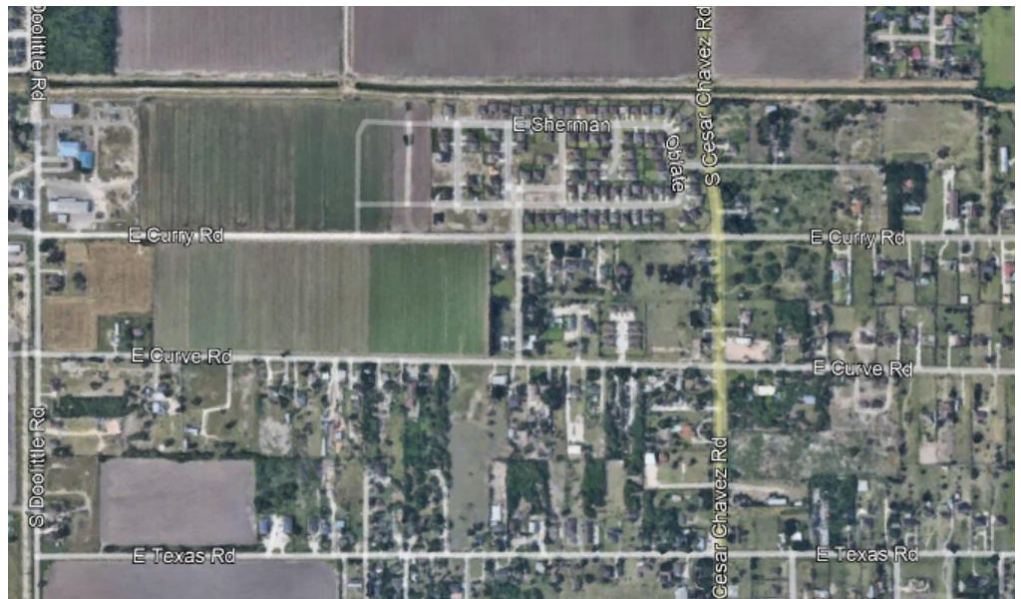
Channel Improvements with approximately 0.6 miles of proposed improvements. Grate Inlets and Proposed Storm Drain with grate inlets in sag spaced along every 500' tying into a 42" RCP along Cesar Chavez Road starting at just south of Texas Rd to the Curry Drain. Culvert Improvements with connections between the proposed open channels and existing HCDD1 Edinburg Stub will require the installation of 4'x3' RCBs.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities	
County/ Counties	Hidalgo
HUC 8	12110207, 12110284
HUC 12	121102070100, 121102080200, 121102080400,
Study Area (sq. mi.)	0.56



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$1,188,000	Study Sponsor:	Hidalgo County
Estimated year to start:	2023	Entity with Oversight	Hidalgo County
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, Local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Precinct 4 MDP - Risk Area G at Hoehn Rd. & Mile 11 Rd.

FME ID: 151000077

FME Description

Channel Improvements with approximately 0.75 miles of proposed improvements. Proposed Pond north of County Road 3424 and west of County Road 3421 has an approximate footprint of 5 acres and capacity of 35 acre-ft. Grate Inlets and Proposed Storm Drain 5'x5' grate inlets will be located at the southwest corner of Eubanks and County Road 3424 with a connection to a 42" DIA RCP storm drain. Proposed culverts.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

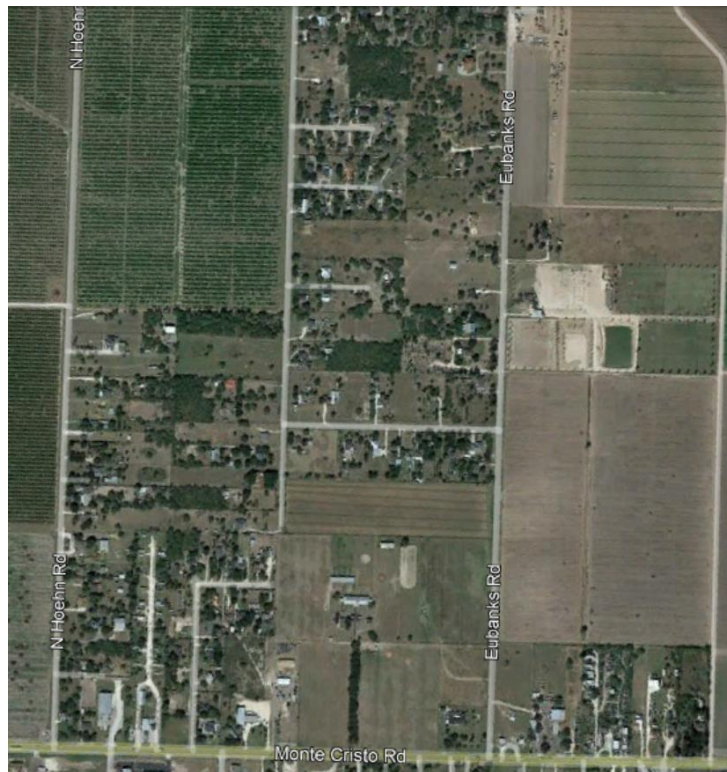
City/ Cities

County/ Counties Hidalgo

HUC 8 12110207,
12110285

HUC 12 121102070100,
121102080200,
121102080400,

Study Area (sq. mi.) 0.79



Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No

Population at Risk

Roadways flooded Yes No

Critical Facilities Impacted Yes No

Notes:

Frequency:
of structures inundated
Miles inundated?
Agricultural Land impacted Yes No

Study Costs

Total Cost: \$909,150

Estimated year to start: 2023

Time to complete? 2025

Funding Dedicated? Yes No

Study Sponsor: Hidalgo County

Entity with Oversight: Hidalgo County

Included in a CIP or other plan? Yes No

(Potential) Source of Funding: FIF, Local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Precinct 4 MDP - Risk Area I at Sharp Rd. & E Monte Cristo Rd

FME ID: 151000078

FME Description

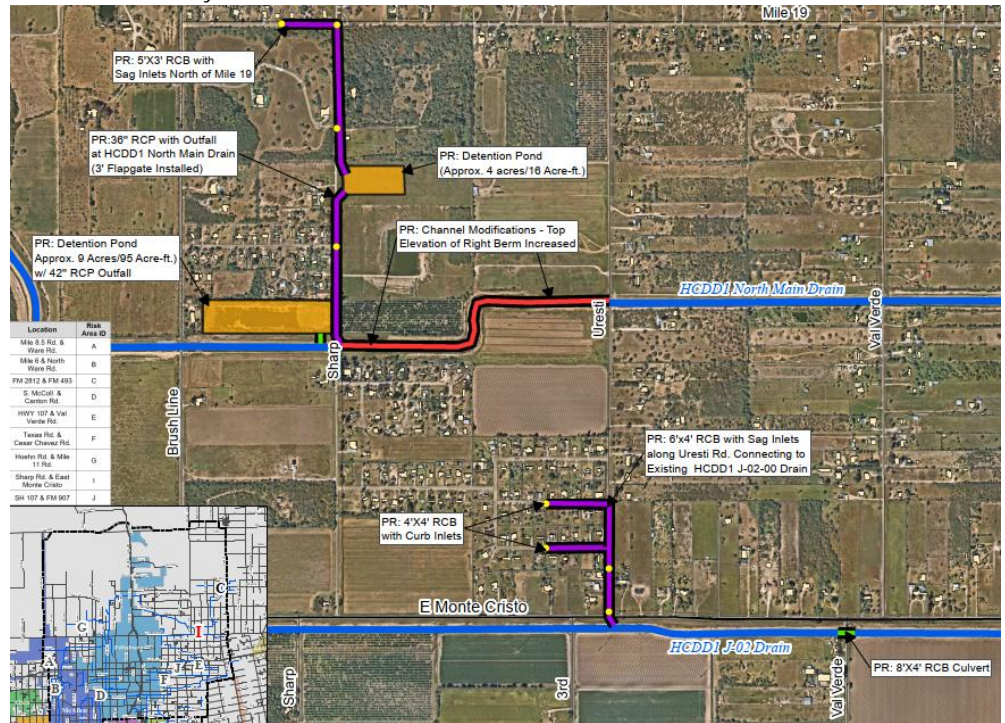
Inlets and proposed storm drain with Approximately 1,100' of 4'x4' RCB storm drain with curb inlets to be installed along Hendrix Dr. and Gaston Cr. with approximately 1,200' of 6'x4' RCB storm with grate and sag inlets along Uresti Rd. with connection to the HCDD1 J-02 Drain. Proposed installation of grate and sag inlets along Mile 19 Rd. (Phase Two) and proposed installation of grate and sag inlets along Sharp Rd. (Phase Two). Proposed Culverts Improvements (Phase One). Proposed detention pond with 9 acre footprint. Channel maintenance.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities	
County/ Counties	Hidalgo
HUC 8	12110207, 12110286
HUC 12	121102080400, 121102070100, 121102080200, 121102080200
Study Area (sq. mi.)	0.73



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$899,250	Study Sponsor:	Hidalgo County Precinct 4
Estimated year to start:	2023	Entity with Oversight	Hidalgo County Precinct 4
Time to complete?	2025	Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Precinct 4 MDP - Risk Area J at SH107 & FM

FME ID: 151000079

FME Description

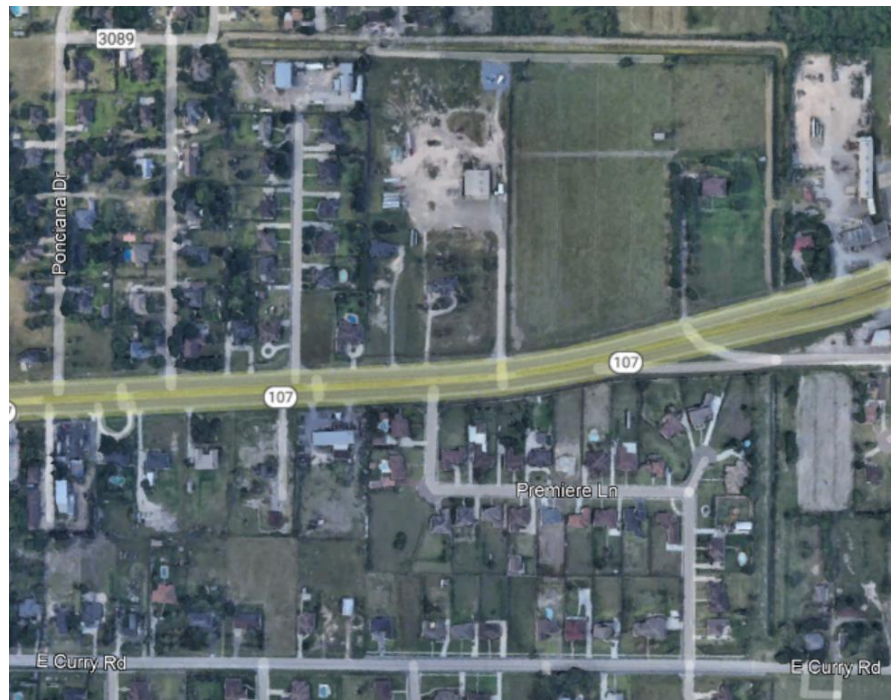
Channel Improvements (Widening & Regrading) to Existing HCDD1 "Y" drain with approximately 0.75 miles of proposed channel improvements beginning at Fresno Dr. and ending at E Curry Rd. Proposed Drainage Grate Inlets approximately 3,800' of storm drain to provide local drainage improvements north and west of existing HCDD1 "Y" Drain in two separate systems. Proposed culverts improvements. Proposed detention pond with a 2.7 acre footprint.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities	
County/ Counties	Hidalgo
HUC 8	12110207, 12110287
HUC 12	121102070100, 121102080200, 121102080400,
Study Area (sq. mi.)	0.15



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$541,200	Study Sponsor:	Hidalgo County
Estimated year to start:	2023	Entity with Oversight	Hidalgo County
Time to complete?	2025	Included in a CIP or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, Local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Jim Hogg County Master Drainage Study

FME ID: 151000082

FME Description

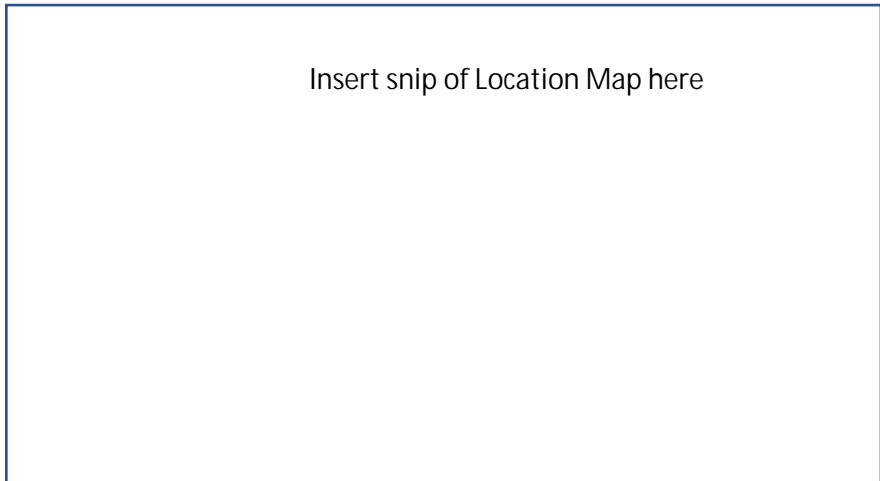
Develop Flood risk maps for the county of Jim Hogg and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Jim Hogg
HUC 8
HUC 12
Study Area (sq. mi.) 870.56



Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No Frequency:
Population at Risk # of structures inundated
Roadways flooded Yes No Miles inundated?
Critical Facilities Impacted Yes No Agricultural Land impacted Yes No
Notes:

Study Costs

Total Cost: \$250,000 Study Sponsor:
Estimated year to start: Entity with Oversight
Time to complete? Included in a CIP or other plan? Yes No
Funding Dedicated? Yes No (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Kenedy County Master Drainage Study

FME ID: 151000083

FME Description

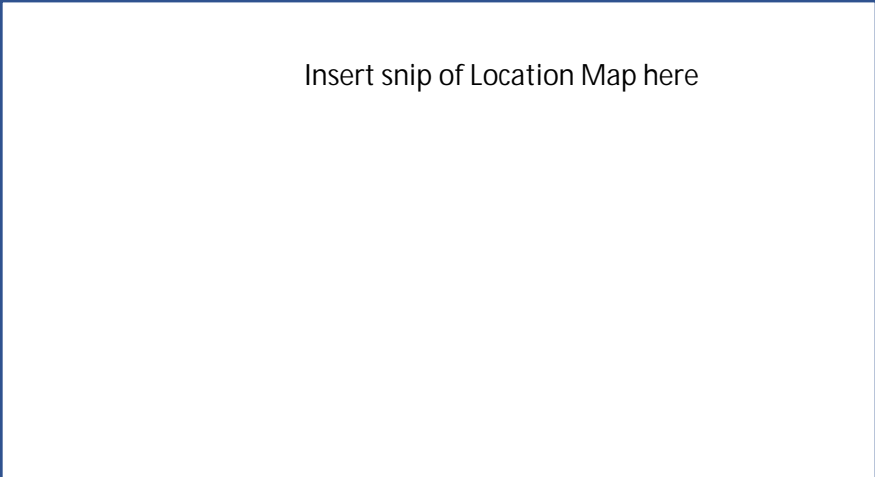
Develop Flood risk maps for the county of Kenedy and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Kenedy
HUC 8
HUC 12
Study Area (sq. mi.) 1478.25



Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No Frequency:
Population at Risk # of structures inundated
Roadways flooded Yes No Miles inundated?
Critical Facilities Impacted Yes No Agricultural Land impacted Yes No
Notes:

Study Costs

Total Cost: \$250,000 Study Sponsor:
Estimated year to start: Entity with Oversight
Time to complete? Included in a CIP or other plan? Yes No
Funding Dedicated? Yes No (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Fort Clark MUD Master Drainage Study

FME ID: 151000084

FME Description

Develop Flood risk maps for Fort Clark MUD and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Kinney
HUC 8
HUC 12
Study Area (sq. mi.) 4.21

Insert snip of Location Map here

Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No



Kinney County Master Drainage Study

FME ID: 151000085

FME Description

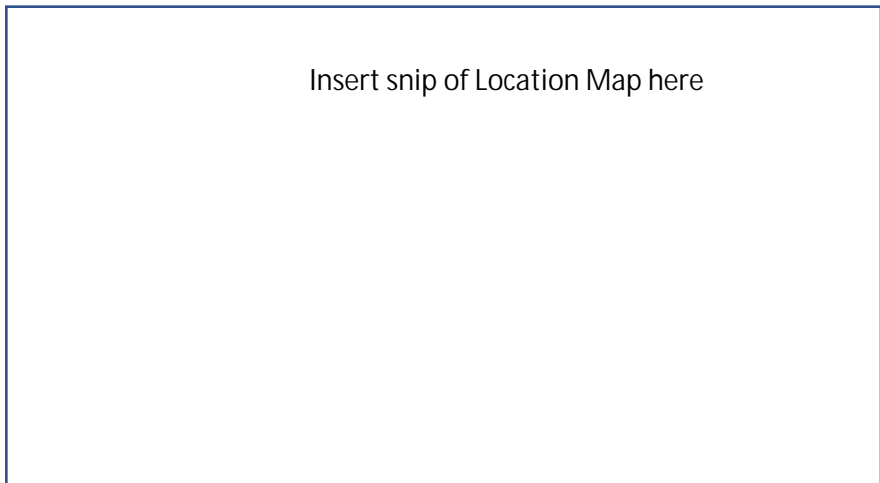
Develop Flood risk maps for the county of Kinney and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
 County/ Counties Kinney
 HUC 8
 HUC 12
 Study Area (sq. mi.) 751.29



Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No Frequency:
 Population at Risk # of structures inundated
 Roadways flooded Yes No Miles inundated?
 Critical Facilities Impacted Yes No Agricultural Land impacted Yes No
 Notes:

Study Costs

Total Cost: \$250,000 Study Sponsor:
 Estimated year to start: Entity with Oversight
 Time to complete? Included in a CIP or other plan? Yes No
 Funding Dedicated? Yes No (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Risk Area 11 Rancho Escondido

FME ID: 151000086

FME Description

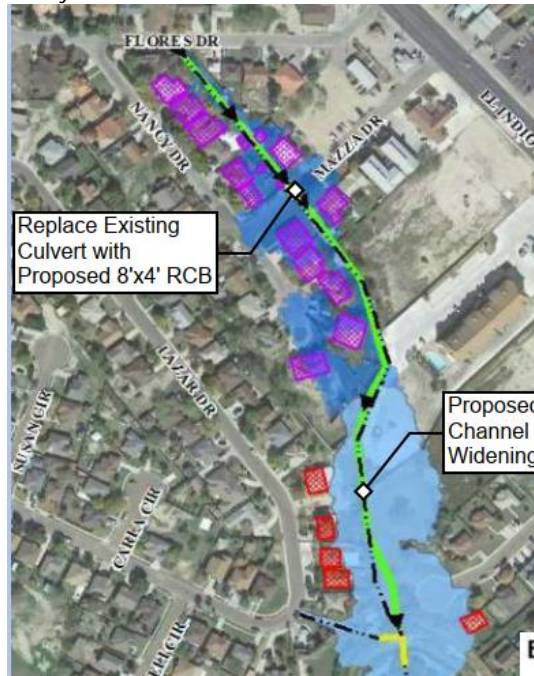
Study includes constructing 10'x2' U-shaped channel from Flores Drive to just south of Microtel Inn Suites, replacing existing culvert under Maza Drive with 1-8'x4' RCB, and installing curb inlet at cul-de-sac on Nancy Drive.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities	Eagle Pass
County/ Counties	Maverick
HUC 8	13080001, 13080002
HUC 12	130800020703, 130800020702
Study Area (sq. mi.)	0.03



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$136,785	Study Sponsor:	City of Eagle Pass
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Risk Area 12 Fox Borough Drive

FME ID: 151000087

FME Description

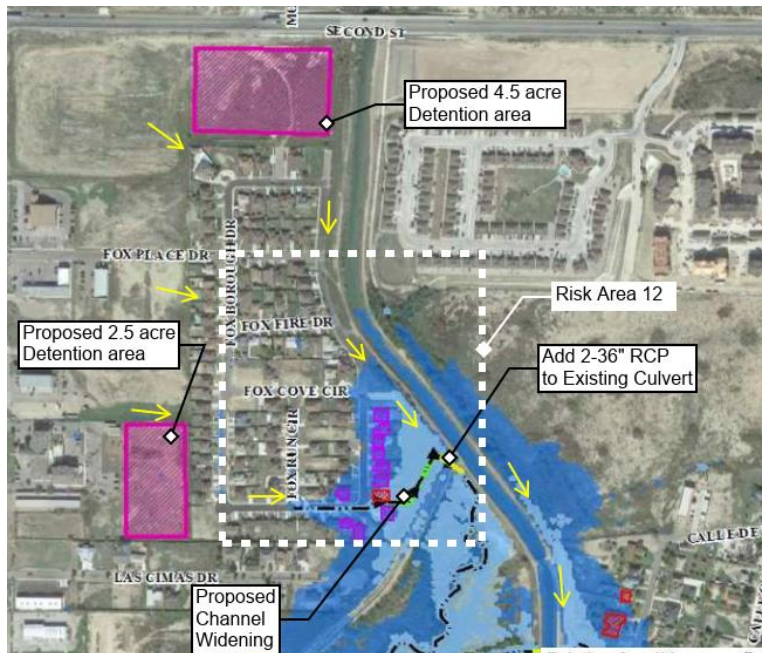
Study includes bypassing flow from inlet at PointLoma Drive and North Point Drive to the detention pond with 1 - 8'x4' RCB and Installing additional curb inlets on N. Point Drive and Silver Oak Circle.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities	Eagle Pass
County/ Counties	Maverick
HUC 8	13080001, 13080002
HUC 12	130800020703, 130800020702
Study Area (sq. mi.)	0.05



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$177,870	Study Sponsor:	City of Eagle Pass
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Risk Area 13 Celle De Los Santos neighborhood. Additional culvert under irrigation canal.

FME ID: 151000088

FME Description

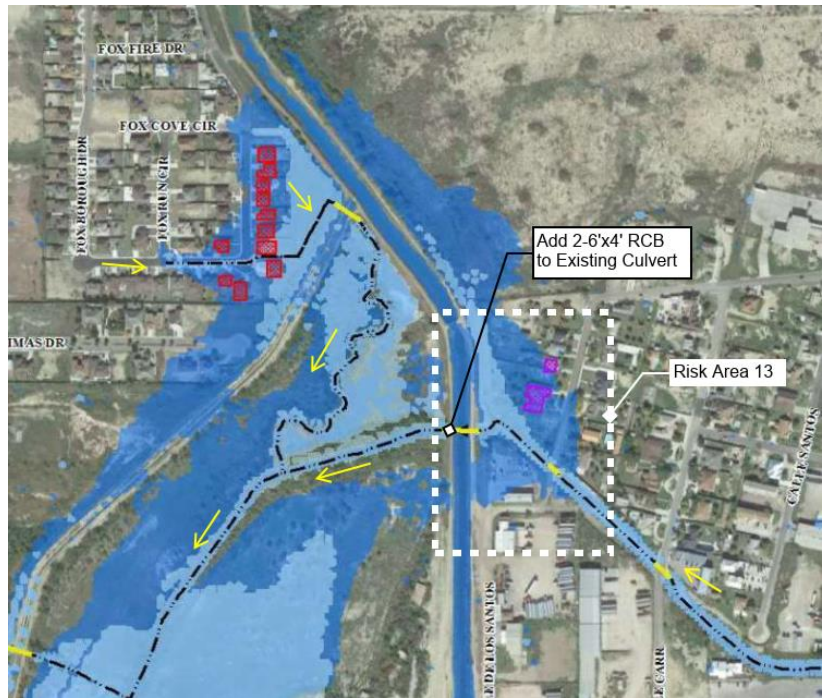
Study includes upgrading existing culvert crossing irrigation canal from 2-6'x4' RCB to 4-6'x4' RCB.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Eagle Pass
 County/ Counties Maverick
 HUC 8 13080001,
 13080002
 HUC 12 130800020703,
 130800020702
 Study Area (sq. mi.) 0.03



Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No
 Population at Risk Yes No
 Roadways flooded Yes No
 Critical Facilities Impacted Yes No
 Notes: Agricultural Land impacted Yes No

Study Costs

Total Cost: \$27,225
 Estimated year to start:
 Time to complete?
 Funding Dedicated? Yes No
 Study Sponsor: City of Eagle Pass
 Entity with Oversight City of Eagle Pass
 Included in a Hazard Mitigation Action Plan or other plan? Yes No
 (Potential) Source of Funding FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Risk Area 15 Trib 3 Detention at Main Street

FME ID: 151000089

FME Description

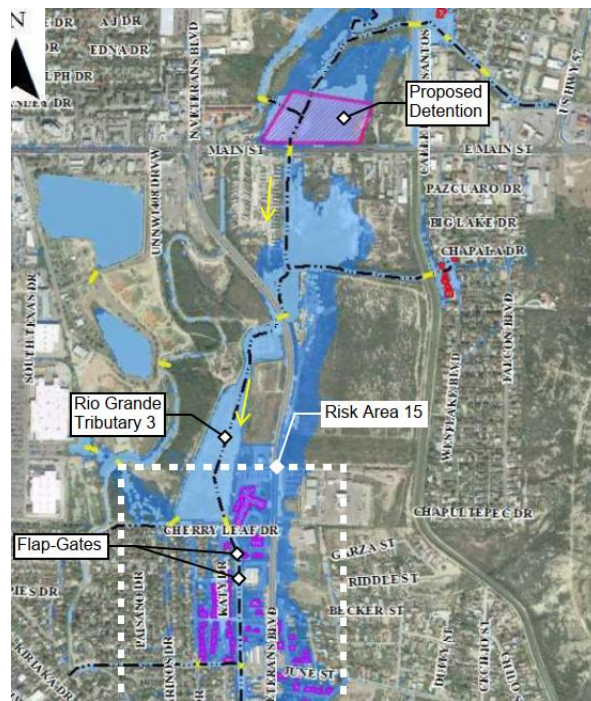
Study includes constructing 10 acre detention pond (29 ac-ft volume) along East Channel north of Highway 277 and installing flap-gates at flume outfalls on Omar Drive and Jana Drive, to prevent more frequent stormwater from backing up into the neighborhood on the west side of the channel.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities	Eagle Pass
County/ Counties	Maverick
HUC 8	13080001, 13080002
HUC 12	130800020703, 130800020702
Study Area (sq. mi.)	0.05



Emergency Need

Yes No

Known Flood Risk

- History of Flooding? Yes No
 - Population at Risk Yes No
 - Roadways flooded Yes No
 - Critical Facilities Impacted Yes No
- Notes:

Agricultural Land impacted Yes No

Study Costs

Total Cost:	\$124,245	Study Sponsor:	City of Eagle Pass
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Risk Area 2 Treasure Hills

FME ID: 151000090

FME Description

Study includes constructing a 4' deep trapezoidal concrete channel with 8' bottom width and 2:1 side slopes, from detention pond outfall to existing culverts.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities	Eagle Pass
County/ Counties	Maverick
HUC 8	13080001, 13080002
HUC 12	130800020703, 130800020702
Study Area (sq. mi.)	0.06



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$89,595	Study Sponsor:	City of Eagle Pass
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Risk Area 3 Arrow Point Boulevard

FME ID: 151000091

FME Description

Study includes constructing small retaining wall at downstream of flume outfall to force flow towards Stone Way and constructing a 2' wide and 6" deep concrete flume from existing flume outfall to Stone Way.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Are

City/ Cities Eagle Pass
 County/ Counties Maverick
 HUC 8 13080001,
 13080002
 HUC 12 130800020703,
 130800020702
 Study Area (sq. mi.) 0.02



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$7,920	Study Sponsor:	City of Eagle Pass
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
		Action Plan or other plan?	
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Risk Area 4 Bibb & Misty Willow storm drain

FME ID: 151000092

FME Description

Study includes installing 6'x4' RCB along Misty Willow Drive from N Bibb Avenue to existing channel between N Bibb Avenue and Timber Valley and installing curb inlets on N Bibb Avenue and Misty Willow Drive.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Eagle Pass
 County/ Counties Maverick
 HUC 8 13080001,
 13080002
 HUC 12 130800020703,
 130800020702
 Study Area (sq. mi.) 0.02



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$47,520	Study Sponsor:	City of Eagle Pass
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Risk Area 5 Debona Drive

FME ID: 151000093

FME Description

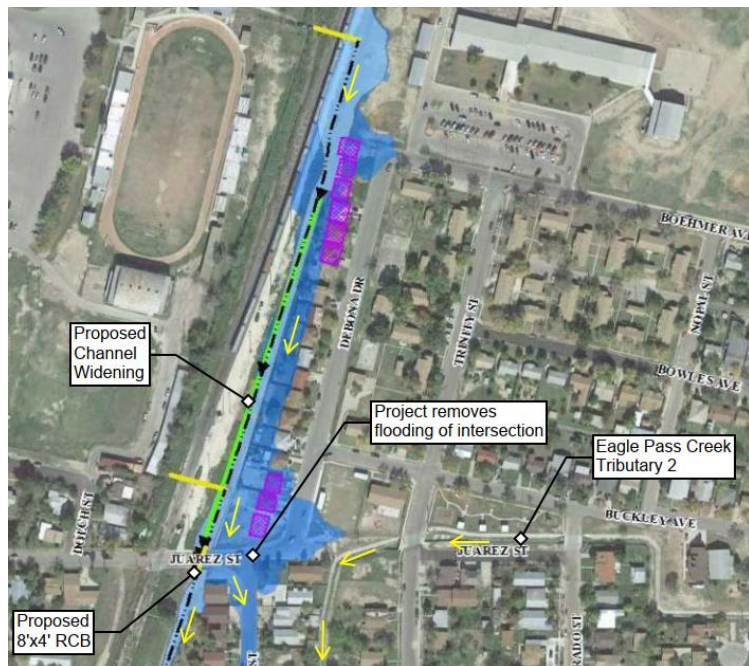
Study includes constructing a 5' deep trapezoidal channel approximately 30 feet wide with 3:1 side slopes and a 5' concrete pilot channel, replacing Juarez Street culvert with 8'x4' box culvert, and realigning existing channel to provide additional distance from homes.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities	Eagle Pass
County/ Counties	Maverick
HUC 8	13080001, 13080002
HUC 12	130800020703, 130800020702
Study Area (sq. mi.)	0.02



Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No
 Population at Risk Yes No
 Roadways flooded Yes No
 Critical Facilities Impacted Yes No
 Notes:

Miles inundated? _____
 Agricultural Land impacted Yes No

Study Costs

Total Cost: \$53,955
 Estimated year to start: _____
 Time to complete? _____
 Funding Dedicated? Yes No

Study Sponsor: City of Eagle Pass
 Entity with Oversight: City of Eagle Pass
 Included in a Hazard Mitigation Action Plan or other plan? Yes No
 (Potential) Source of Funding: FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Risk Area 6 Trib 2 bypass & detention at Eagle Pass High School fields

FME ID: 151000094

FME Description

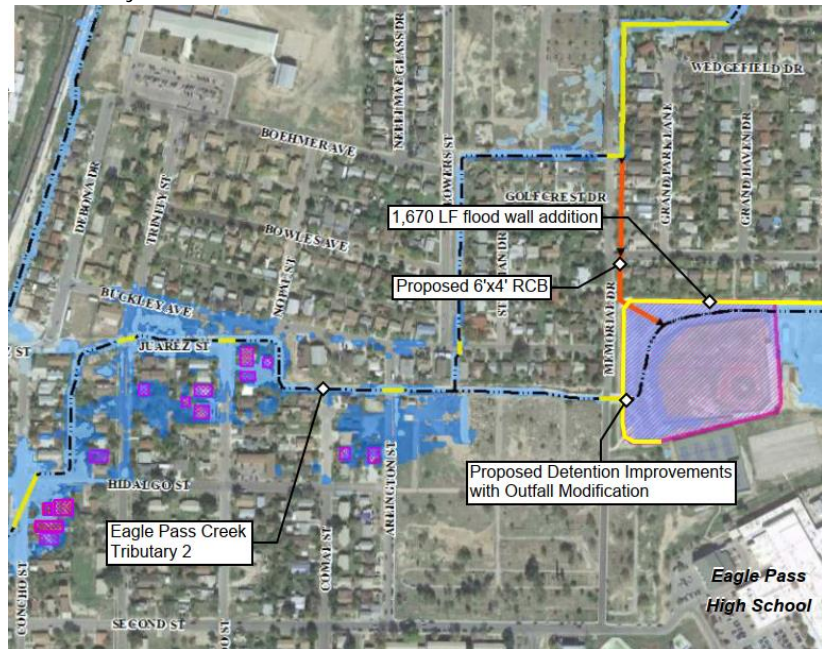
Study includes bypassing flow from Golfcrest Drive to the detention pond with 1-6'x4', RCB Modifying outfall structure from 2-5'x3' RCB to 1-5'x3' RCB, and Lowering existing baseball field by 3 ft to provide an additional 30 ac-ft of storage.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities	Eagle Pass
County/ Counties	Maverick
HUC 8	13080001, 13080002
HUC 12	130800020703, 130800020702
Study Area (sq. mi.)	0.10



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$143,550	Study Sponsor:	City of Eagle Pass
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Action Plan or other plan?	
		(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Risk Area 8 Tributary 2 channel widening near Alexander Drive

FME ID: 151000095

FME Description

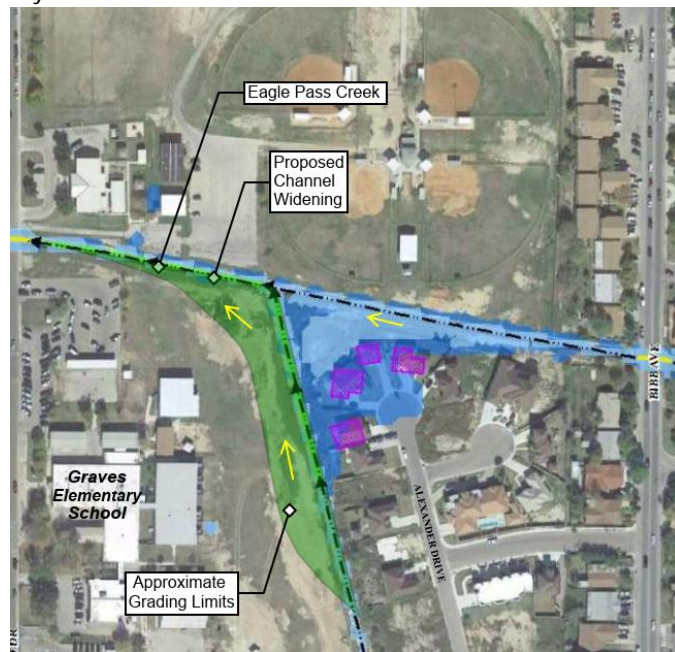
Study includes constructing a 3' deep trapezoidal channel with a 76' bottom width with 4:1 side slopes from Graves Elementary School to the confluence of existing channels and constructing a 4' deep trapezoidal channel with a 11' bottom width with 4:1 side slopes from confluence of existing channels to existing culvert at Kelso Drive.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Flood preparedness studies
- Feasibility Assessments

Study Area

City/ Cities	Eagle Pass
County/ Counties	Maverick
HUC 8	13080001, 13080002
HUC 12	130800020703, 130800020702
Study Area (sq. mi.)	0.04



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency of flooding:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	12,045	Study Sponsor:	City of Eagle Pass
Estimated year to start:		Entity with Oversight	City of Eagle Pass
Time to complete?		Included in a Hazard Mitigation Action Plan or other plan?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	FIF, local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Maverick County Master Drainage Study

FME ID: 151000096

FME Description

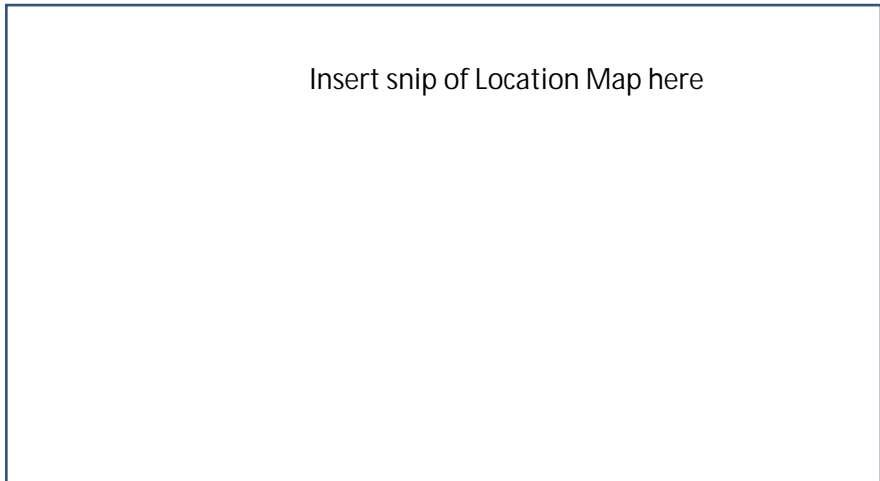
Develop Flood risk maps for the county of Maverick and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Maverick
HUC 8 13080001,
 13080002
HUC 12
Study Area (sq. mi.) 768.49



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Starr County Master Drainage Study

FME ID: 151000097

FME Description

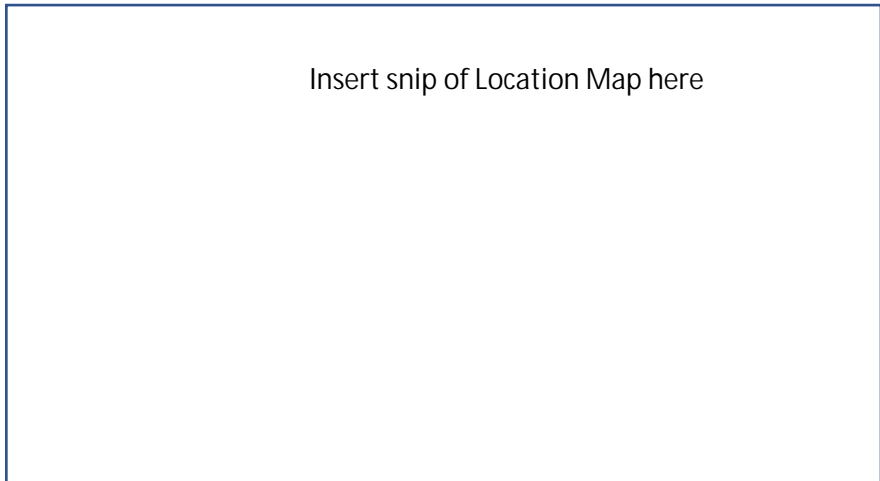
Develop Flood risk maps for the county of Starr and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Starr
HUC 8 12110207,
12110208
HUC 12
Study Area (sq. mi.) 1232.38



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Starr County Drainage District Master Drainage Study

FME ID: 151000098

FME Description

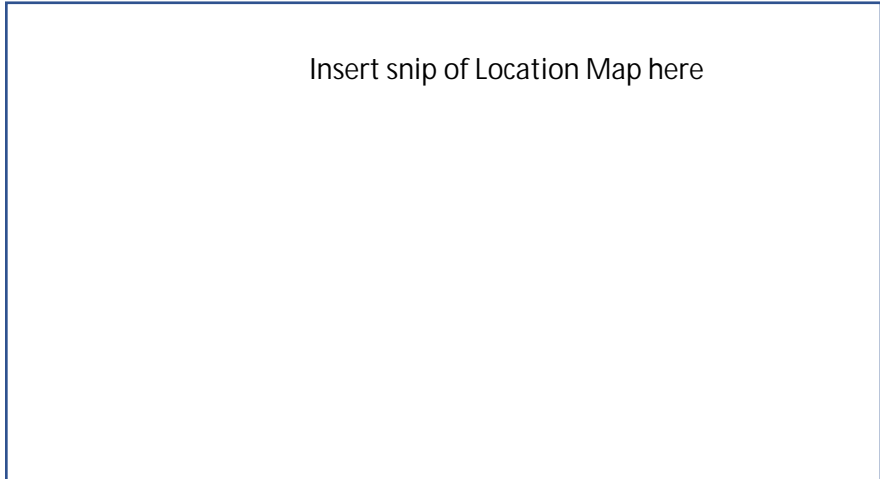
Develop Flood risk maps for the Starr County Drainage District and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Starr
HUC 8 12110207,
12110208
HUC 12
Study Area (sq. mi.) 1232.34



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:
Population at Risk		# of structures inundated
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted
Notes:		Yes <input type="checkbox"/> No <input type="checkbox"/>

Study Costs

Total Cost:	\$250,000	Study Sponsor:
Estimated year to start:		Entity with Oversight
Time to complete?		Included in a CIP or other plan?
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding
		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Flood Management Evaluations Fact Sheet

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did not meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

La Grulla Master Drainage Study

FME ID: 151000099

FME Description

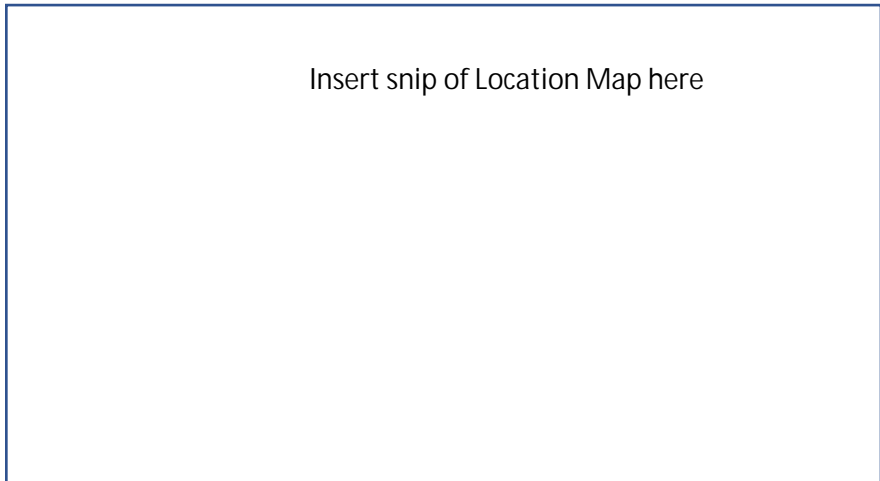
Develop Flood risk maps for the city of La Grulla and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities La Grulla
 County/ Counties Starr
 HUC 8 12110207,
 12110208
 HUC 12
 Study Area (sq. mi.) 0.94



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Roma Master Drainage Study

FME ID: 151000100

FME Description

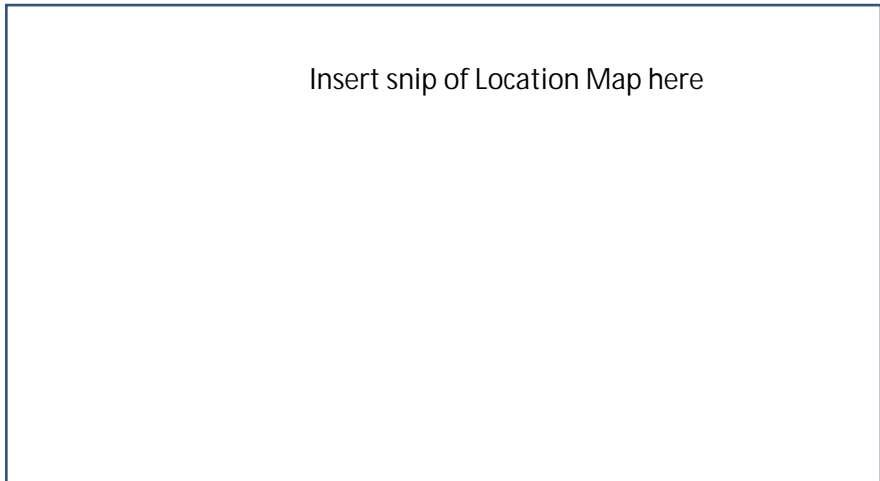
Develop Flood risk maps for the city of Roma and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Roma
 County/ Counties Starr
 HUC 8 12110207,
 12110208
 HUC 12
 Study Area (sq. mi.) 5.98



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Escobares Master Drainage Study

FME ID: 151000101

FME Description

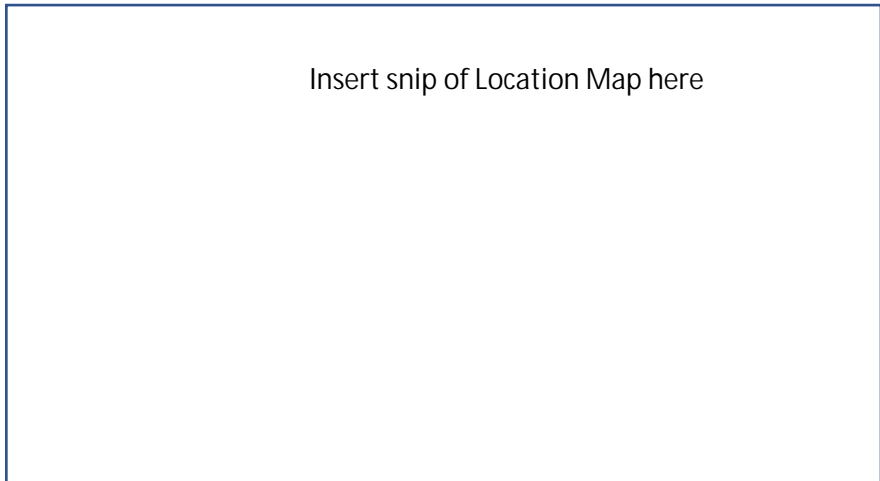
Develop Flood risk maps for the city of Escobares and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Escobares
 County/ Counties Starr
 HUC 8 12110207,
 12110208
 HUC 12
 Study Area (sq. mi.) 2.73



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Rio Grande City Master Drainage Study

FME ID: 151000102

FME Description

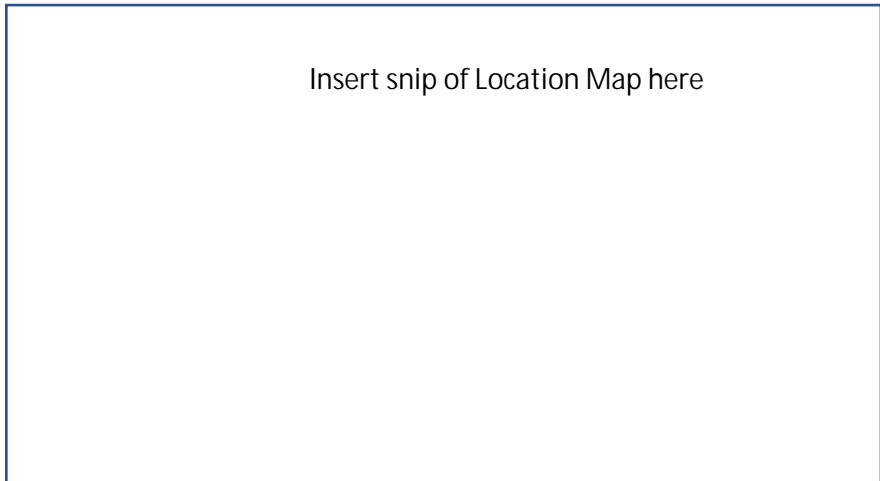
Develop Flood risk maps for the city of Rio Grande City and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Rio Grande City
 County/ Counties Starr
 HUC 8 12110207,
 12110208
 HUC 12
 Study Area (sq. mi.) 11.38



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Val Verde County Master Drainage Study

FME ID: 151000124

FME Description

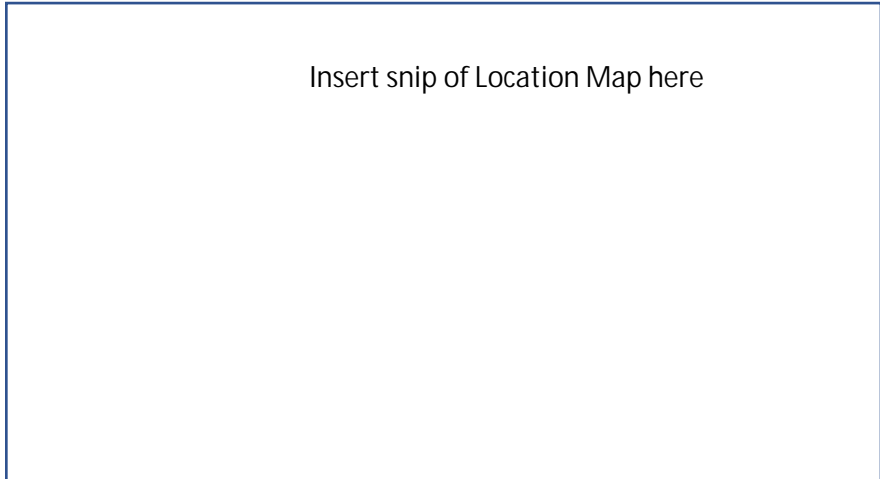
Develop Flood risk maps for the county of Val Verde and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Val Verde
HUC 8 13080001
HUC 12
Study Area (sq. mi.) 349.71



Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No Frequency:
Population at Risk # of structures inundated
Roadways flooded Yes No Miles inundated?
Critical Facilities Impacted Yes No Agricultural Land impacted Yes No
Notes:

Study Costs

Total Cost: \$500,000 Study Sponsor:
Estimated year to start: Entity with Oversight
Time to complete? Included in a CIP or other plan? Yes No
Funding Dedicated? Yes No (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Webb County Drainage District #1 Master Drainage Study

FME ID: 151000125

FME Description

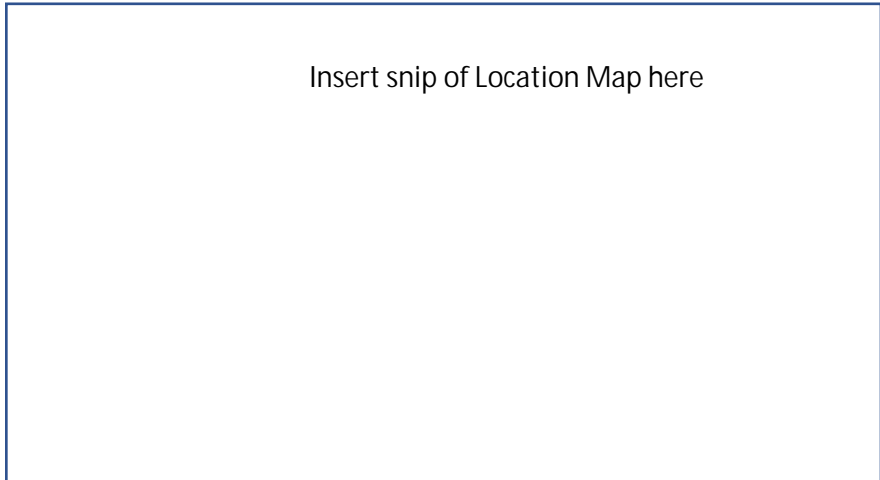
Develop Flood risk maps for the Webb County Drainage District #1 and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Webb
HUC 8 13080002
HUC 12
Study Area (sq. mi.) 9.12



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$1,000,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Rio Bravo Master Drainage Study

FME ID: 151000127

FME Description

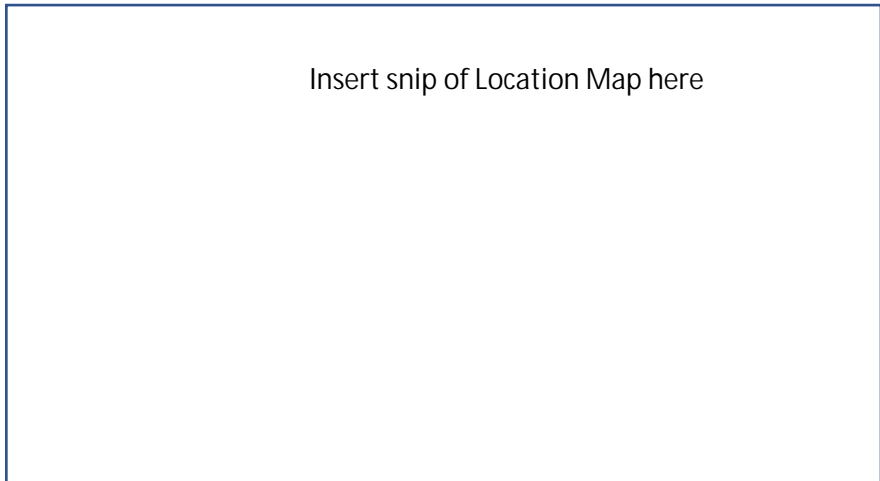
Develop Flood risk maps for the city of Rio Bravo and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities Rio Bravo
 County/ Counties Webb
 HUC 8 13080002
 HUC 12
 Study Area (sq. mi.) 0.66



Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No Frequency:
 Population at Risk # of structures inundated
 Roadways flooded Yes No Miles inundated?
 Critical Facilities Impacted Yes No Agricultural Land impacted Yes No
 Notes:

Study Costs

Total Cost: \$250,000 Study Sponsor:
 Estimated year to start: Entity with Oversight
 Time to complete? Included in a CIP or other plan? Yes No
 Funding Dedicated? Yes No (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes v No

El Cenizo Master Drainage Study

FME ID: 151000128

FME Description

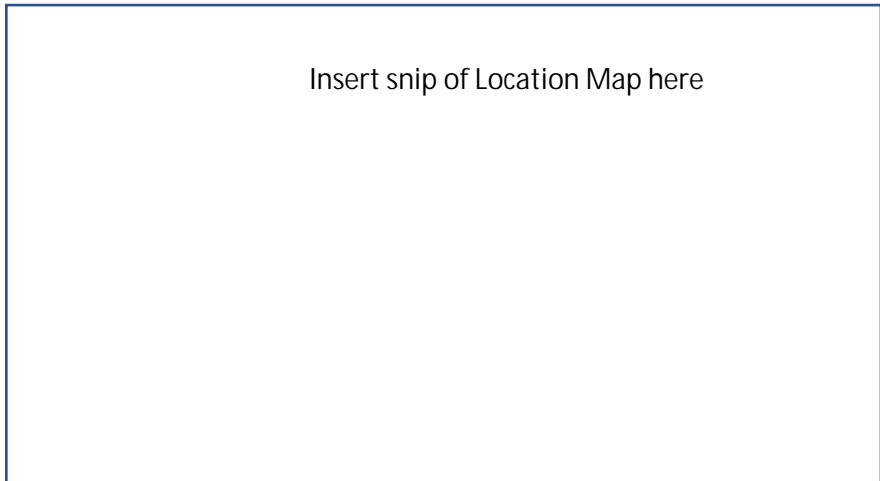
Develop Flood risk maps for the city of El Cenizo and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities El Cenizo
 County/ Counties Webb
 HUC 8 13080002
 HUC 12
 Study Area (sq. mi.) 0.53



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

City of Laredo Project 6

FME ID: 151000130

FME Description

Vidaurri Avenue Roadway Drainage Improvements to prevent future drainage in the area. Street improvements from Scott Street to Jefferson Street.

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities	Laredo
County/ Counties	Webb
HUC 8	13080002
HUC 12	130800022405, 130800022610, 130800022611, 130800022612, 130800022801, 130800022802, 130800022804, 130800022805, 130800022809, 130800030208, 130800022806
Study Area (sq. mi.)	0.70



Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost: \$330,000 Study Sponsor: Laredo

Flood Management Evaluations Fact Sheet

Estimated year to start: _____ Entity with Oversight Laredo
 Time to complete? _____ Included in a CIP or other plan? Yes No
 Funding Dedicated? Yes No (Potential) Source of Funding N/A

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Webb County Master Drainage Study

FME ID: 151000131

FME Description

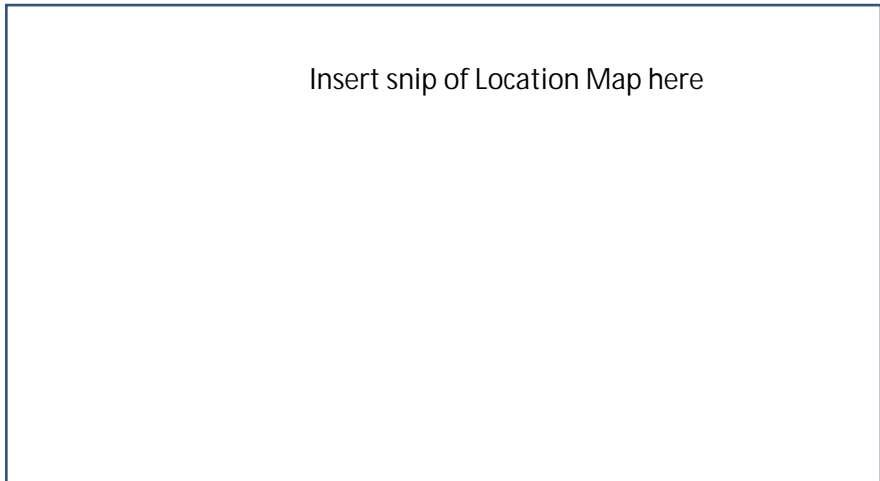
Develop Flood risk maps for the county of Webb and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Webb
HUC 8 13080002
HUC 12
Study Area (sq. mi.) 1654.59



Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No Frequency:
Population at Risk # of structures inundated
Roadways flooded Yes No Miles inundated?
Critical Facilities Impacted Yes No Agricultural Land impacted Yes No
Notes:

Study Costs

Total Cost: \$1,000,000 Study Sponsor:
Estimated year to start: Entity with Oversight
Time to complete? Included in a CIP or other plan? Yes No
Funding Dedicated? Yes No (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
- Increase the coverage of available flood hazard data by completing studies with identified construction projects to address flooding hazards
- Increase participation in the regional flood planning process
- Provide regional detention that could be used for water reuse applications or as part of a floodplain management program
- Increase acreage of publicly protected open space in critical flood risk areas that is reused for a beneficial public use
- Increase outreach and education activities, specifically targeting municipal floodplain managers, hosted by Region 15 RFPG and available on the website
- Increase the use reverse 911, TV, radio, social media, and billboards to communicate flood warnings, evacuation routes, and shelter locations
- Reduce the # of structures that have been subject to repeated flooding events through property buyouts
- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
- Increase the amount of publicly owned land in the region that can be utilized for future regional stormwater infrastructure
- Increase the proficiency of floodplain managers by increasing the # of them that are certified as Certified Floodplain Managers (CFM) with the Texas Floodplain Management Association
- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

Zapata County Master Drainage Study

FME ID: 151000132

FME Description

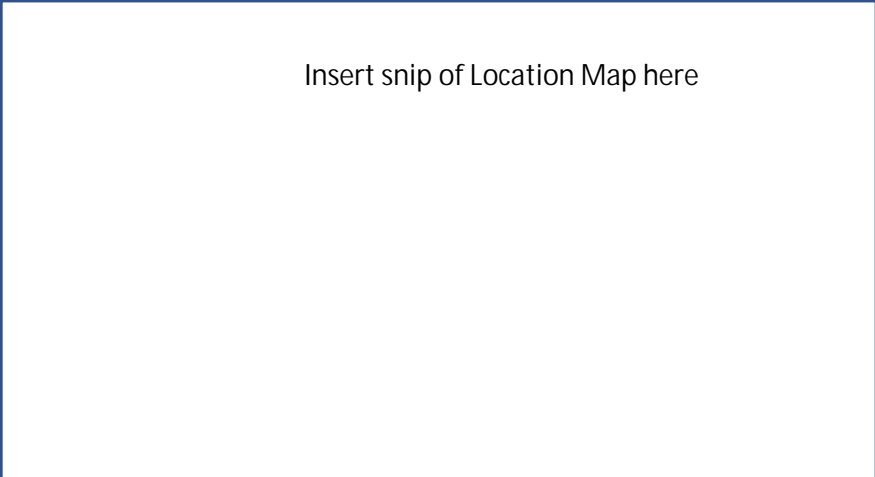
Develop Flood risk maps for the county of Zapata and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Zapata
HUC 8
HUC 12
Study Area (sq. mi.) 150.03



Emergency Need

Yes No

Known Flood Risk

History of Flooding? Yes No Frequency:
Population at Risk # of structures inundated
Roadways flooded Yes No Miles inundated?
Critical Facilities Impacted Yes No Agricultural Land impacted Yes No
Notes:

Study Costs

Total Cost: \$250,000 Study Sponsor:
Estimated year to start: Entity with Oversight
Time to complete? Included in a CIP or other plan? Yes No
Funding Dedicated? Yes No (Potential) Source of Funding

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
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- Increase the # of entities that adopt higher than NFIP-minimum standards
- Develop and maintain an operational stormwater asset management plan
- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
- Increase use of nature-based flood risk reduction projects
- Develop a regionally coordinated warning and emergency response program that can detect the flood threat and provide timely warning of impending flood danger
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- Increase participation in the Community Rating System by encouraging Region 15 floodplain management programs to incorporate dedicated drainage fees to implement future FMEs and FMPs; incorporate noncompliance penalties; and who regulate development in the future conditions floodplain

RFPG Recommended

Yes No

San Ygnacio MUD Master Drainage Study

FME ID: 151000133

FME Description

Develop Flood risk maps for San Ygnacio MUD and develop CIP

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities
County/ Counties Zapata
HUC 8
HUC 12
Study Area (sq. mi.)

Insert snip of Location Map here

Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>
Notes:			

Study Costs

Total Cost:	\$250,000	Study Sponsor:	
Estimated year to start:		Entity with Oversight	
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
- Increase the # of communities participating in the National Flood Insurance Program
- Decrease the average age of FEMA Flood Insurance Rate Maps used to define SFHAs
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- Increase the # of flood gauges (rainfall/stream) in the region
- Increase the # of entities that have multi-year drainage CIP list
- Increase the # of entities that integrate National Weather Service and USGS Texas Water Science Center (TXWSC) flood warning system information into their local capabilities to disseminate warnings
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RFPG Recommended

Yes No

Rgc Public Works, Escobares City, And Starr Public Works Roadway Improvements

FME ID: 151000103

FME Description

Improve Roadways, By Widening And Raising, And Create Drainage Culverts Or Bridges. (Morenos Creek And Garceno Creek)(Kelsey Creek, Rio Grande City)

Study Type

- Flood risk modeling/mapping
- Flood mitigation study
- Alternative Analysis
- Feasibility Assessments
- Flood preparedness studies

Study Area

City/ Cities

County/ Counties STARR

HUC 8 12110207,
13090001

HUC 12 121102070100,
130900011301,
130900011302,
130900011304,
130900011202,

130900011203, 130900011204, 130900011401,
130900011402, 130800031007, 130800031011,
130900011102, 130900011103, 130900011110,
130900011403, 130900011501, 130900011502,
130900011601, 130900011603, 130900011604,
130900011605, 130900011606, 130900011607,
130900011701, 130900011702, 130900011703,
130900011704, 130900011705, 130900011706,
130900011107, 130900011109, 130900011112



Study Area (sq. mi.)

Emergency Need

Yes No

Known Flood Risk

History of Flooding?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Frequency:	
Population at Risk		# of structures inundated	
Roadways flooded	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Miles inundated?	
Critical Facilities Impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>	Agricultural Land impacted	Yes <input type="checkbox"/> No <input type="checkbox"/>

Notes:

Study Costs

Total Cost:	\$528,000	Study Sponsor:	Starr County
Estimated year to start:		Entity with Oversight	Starr County
Time to complete?		Included in a CIP or other plan?	Yes <input type="checkbox"/> No <input type="checkbox"/>
Funding Dedicated?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	(Potential) Source of Funding	TDA/Local

Study identified as a gap by Region 15 Regional Flood Planning Group (RFPG)

Yes No

Study identified because project could not be included as an Flood Mitigation Project (FMP) in the Region 15 Regional Flood Plan because it did meet the minimum requirements, per TWDB guidance for Regional Flood Planning or the provisions of Title 31 of TAQC Chapters 361 and 362.

Yes No

Was the project missing sufficient data to assess whether the proposed project has a negative effect, per TWDB guidelines? Yes No

Was the project recommended by the RFPG to be studied in order for it to provide more project details, such as a benefit cost ratio or the number of structures the project removes from the 100-year floodplain? Yes No

Related Goals

- Increase community access routes to critical facilities, evacuation routes, during and after a flooding event
- Reduce the # of newly constructed vulnerable critical facilities within the existing and future 100-YR floodplain
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Flood Management Evaluations Fact Sheet

- Increase participation in the regional flood planning process
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RFPG Recommended

Yes No