

Flood Mitigation Project (FMP)

Title **Victoria County Nursery Road LWC**

ID# **113000070** Sponsor **Victoria (Municipality)**

RFPG recommend? - Reason for Recommendation -

Project Description

Improvements consist of five (9ft x 9ft) box culverts and raising the deck elevation to be able to pass the 10% ACE (10-yr) event without overtopping.

Watershed HUC# (if known) **12100204** Emergency Need? **No**

Drainage area (mi² est.) **0.11**

Associated FME's - County **Victoria**

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

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

Population at risk **2** # of structures **2** Critical facilities **0**

Farm/Ranch land impacted (acres) **5.8** Roadway(s) impacted (length) **0.2**

Number of low water crossings **1** Historical road closures **2**

100-Year Flood Risk Reduction

Population removed from 100-yr **0** # of structures removed from 100-yr **0**

Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) **-**

Road removed from 100-yr (miles) **0** Low water crossings removed from 100-yr **1**

Other benefits **None** Reduction in # of road closures over 10 years **2**

Impacts

Negative impacts? **No** Negative impacts description **No**

Water supply contributions? **No** Water supply contribution description **-**

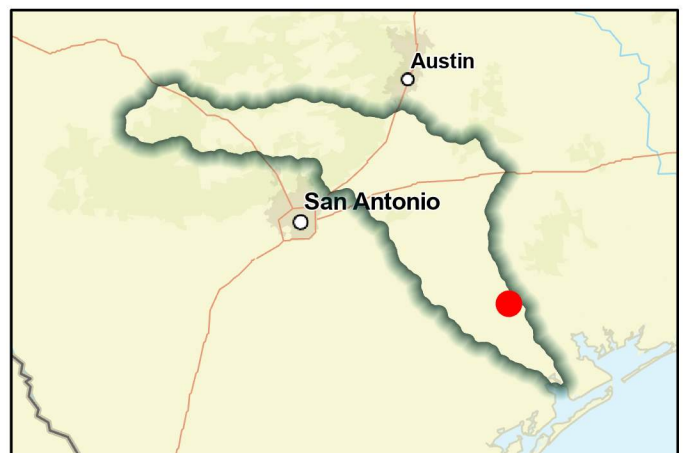
Estimated Cost

Project Cost **\$724,000** % Nature-Based **0** BCR **1.1**

Recurring costs **3600** Issues **None**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Improvements consist of 10 (12ft x 12ft) box culverts and raising the deck elevation to be able to pass the 10% ACE (10-yr) event without overtopping.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FME's County

Associated FMS's Associated FMP's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

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

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

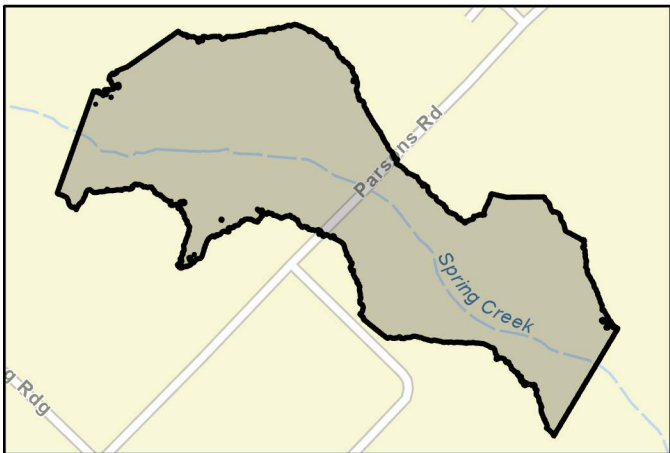
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

The proposed improvements include five (7 ft x 7 ft) box culverts to withstand a 10% ACE (10-yr) event while rerouting River Road to protect existing Cypress trees.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FME's County

Associated FMS's Associated FMP's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

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

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

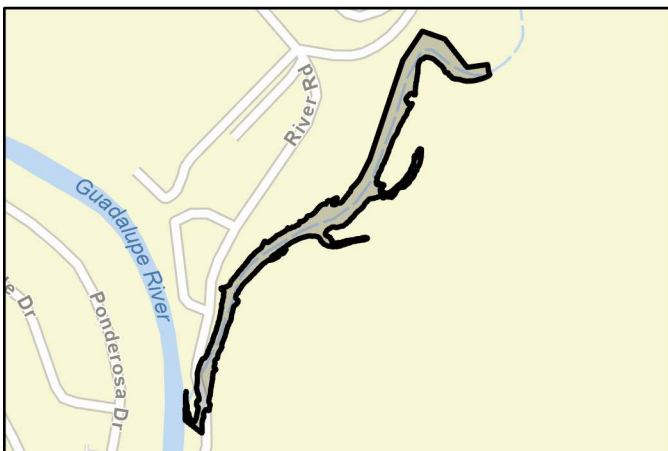
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Flood reduction analysis focused on identifying regional detention measures within the Cypress Creek watershed to reduce flood risk in and around the town of Comfort, TX.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FME's County

Associated FMS's Associated FMP's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

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

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

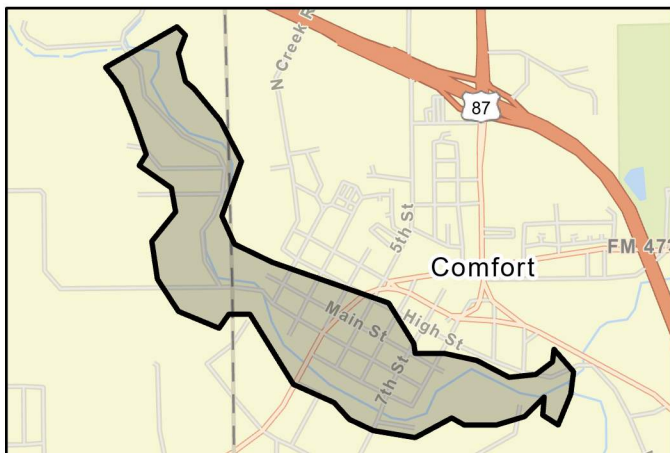
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Upgrade existing low water crossing to include box culverts and channel improvements

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FME's County

Associated FMS's Associated FMP's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

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

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

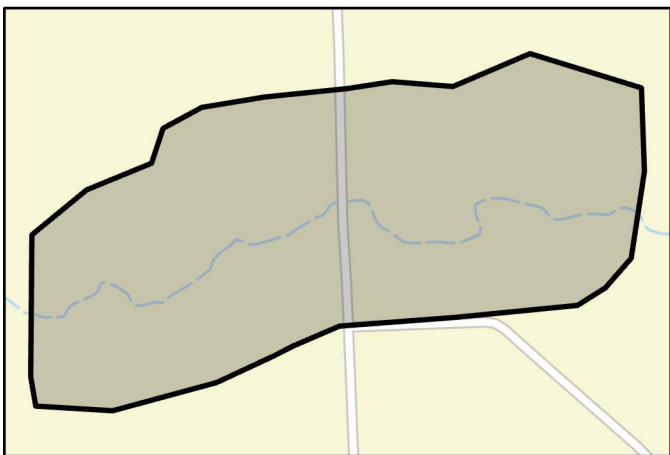
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title **Caldwell County SH 80 Low Water Crossing Improvements @ Morrison Creek**

ID# **113000075** Sponsor **Caldwell (County)**

RFPG recommend? - Reason for Recommendation -

Project Description

Upgrade existing low water crossing to include culverts, channel improvements, and detention

Watershed HUC# (if known) **12100203**

Emergency Need? **No**

Drainage area (mi² est.) **1.85**

Associated FME's -

County **Caldwell**

Associated FMS's -

Associated FMP's -

Existing 100-Year Flood Risk

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

Population at risk **17** # of structures **11** Critical facilities **0**

Farm/Ranch land impacted (acres) **195.3** Roadway(s) impacted (length) **0.6**

Number of low water crossings **3** Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr **17** # of structures removed from 100-yr **10**

Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) **0** Low water crossings removed from 100-yr **3**

Other benefits **None** Reduction in # of road closures over 10 years -

Impacts

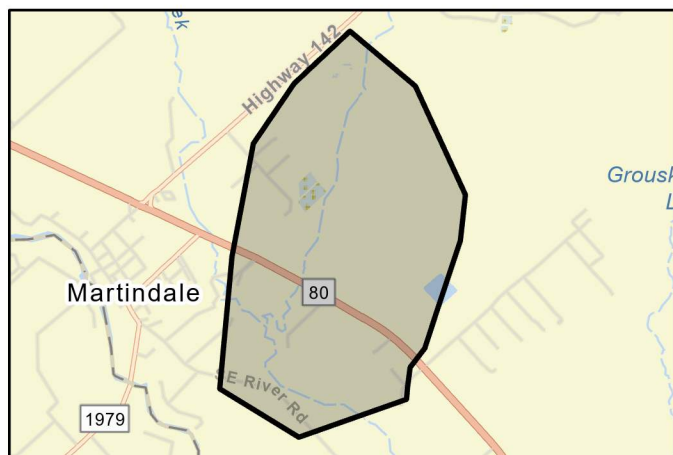
Negative impacts? **Yes** Negative impacts description **Localized WSEL rises between 0.35 ft and 0.50 ft**

Water supply contributions? **No** Water supply contribution description -

Estimated Cost

Project Cost **\$31,960,000** % Nature-Based **0** BCR **0.1**

Recurring costs **0** Issues **None identified at this time**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title **Caldwell County Salt Branch Drainage Improvements in Luling**

ID# **113000076** Sponsor **Caldwell (County)**

RFPG recommend? - Reason for Recommendation -

Project Description

Expand existing US 183 bridge and upgrade existing LWCs at Walnut and Laurel with box culverts and channel improvements

Watershed HUC# (if known) **12100203** Emergency Need? **No**

Drainage area (mi² est.) **0.28**

Associated FME's - County **Caldwell**

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

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

Population at risk **11** # of structures **12** Critical facilities **0**

Farm/Ranch land impacted (acres) **11.1** Roadway(s) impacted (length) **1.6**

Number of low water crossings **2** Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr **0** # of structures removed from 100-yr **0**

Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) **0** Low water crossings removed from 100-yr **2**

Other benefits **None** Reduction in # of road closures over 10 years -

Impacts

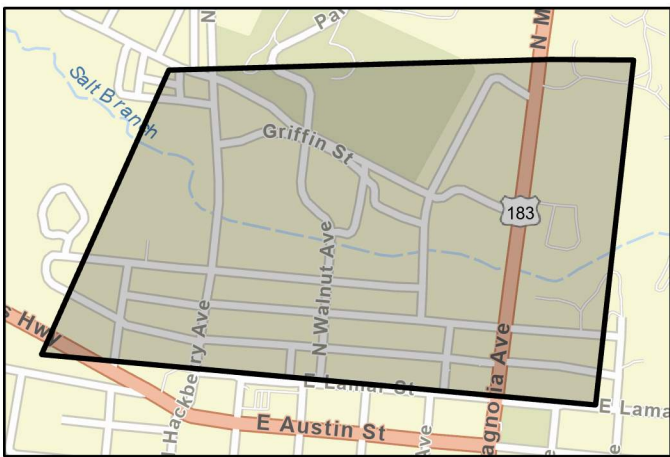
Negative impacts? **No** Negative impacts description **N/A**

Water supply contributions? **No** Water supply contribution description -

Estimated Cost

Project Cost **\$5,778,000** % Nature-Based **0** BCR **0.1**

Recurring costs **0** Issues **None identified at this time**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Upgrade existing low water crossing on Polonia Road to include new bridge; channel improvements at FM 2001 and Polonia Road

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FME's County

Associated FMS's Associated FMP's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

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

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

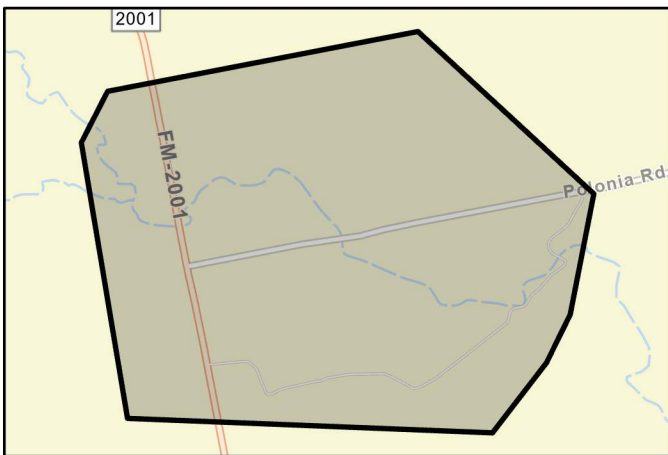
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title **Caldwell County Plum Creek Channel Improvements Near CR 227**

ID# **113000078** Sponsor **Caldwell (County)**

RFPG recommend? - Reason for Recommendation -

Project Description

Channel Improvements to mitigate residential and commercial flooding near CR 227

Watershed HUC# (if known) **12100203** Emergency Need? **No**

Drainage area (mi² est.) **0.39**

Associated FME's - County **Caldwell,Hays**

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

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

Population at risk **15** # of structures **7** Critical facilities **0**

Farm/Ranch land impacted (acres) **52.4** Roadway(s) impacted (length) **0**

Number of low water crossings **0** Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr **4** # of structures removed from 100-yr **6**

Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) **0** Low water crossings removed from 100-yr **0**

Other benefits **None** Reduction in # of road closures over 10 years -

Impacts

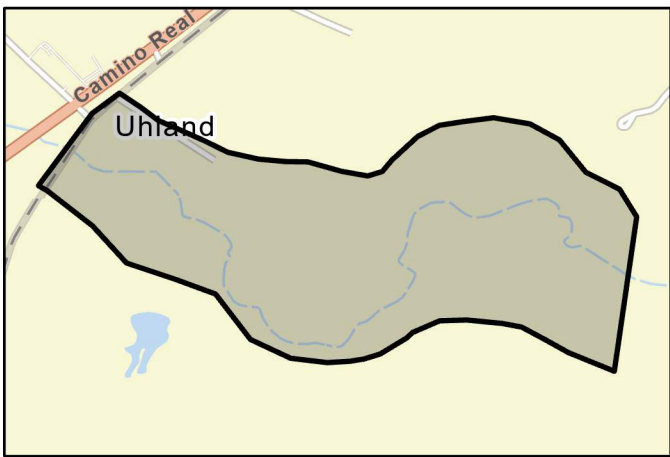
Negative impacts? **No** Negative impacts description **N/A**

Water supply contributions? **No** Water supply contribution description -

Estimated Cost

Project Cost **\$7,413,000** % Nature-Based **0** BCR **0**

Recurring costs **0** Issues **None identified at this time**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title **Caldwell County Hemphill Creek Drainage Improvements Near FM 1984**

ID# **113000079** Sponsor **Caldwell (County)**

RFPG recommend? - Reason for Recommendation -

Project Description

Channel improvements; Bridge Extension; Bridge conversion; and detention to reduce residential flooding near FM 1984

Watershed HUC# (if known) **12100203** Emergency Need? **No**

Drainage area (mi² est.) **0.62**

Associated FME's - County **Caldwell**

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

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

Population at risk **31** # of structures **16** Critical facilities **0**

Farm/Ranch land impacted (acres) **30.6** Roadway(s) impacted (length) **0.6**

Number of low water crossings **1** Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr **28** # of structures removed from 100-yr **10**

Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) **1** Low water crossings removed from 100-yr **1**

Other benefits **None** Reduction in # of road closures over 10 years -

Impacts

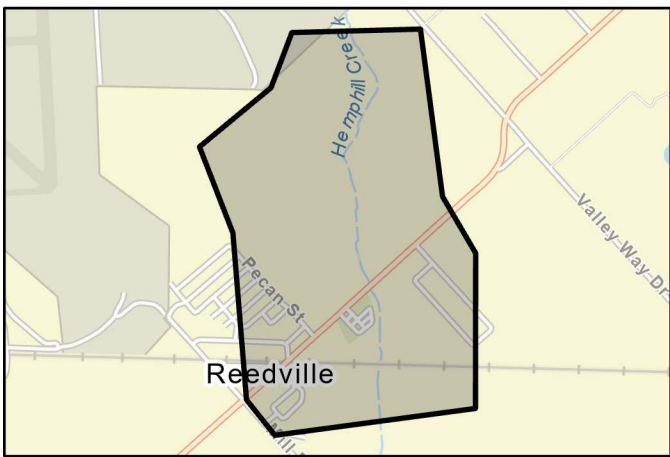
Negative impacts? **Yes** Negative impacts description **Localized WSEL rises between 0.35 ft and 0.50 ft**

Water supply contributions? **No** Water supply contribution description -

Estimated Cost

Project Cost **\$26,273,000** % Nature-Based **0** BCR **0.2**

Recurring costs **0** Issues **None identified at this time**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title **Caldwell County US 183 @ Clear Fork Plum Creek**

ID# **113000080** Sponsor **Caldwell (County)**

RFPG recommend? - Reason for Recommendation -

Project Description

Expand existing US 183 and Robin Ranch Rd bridge openings; channel improvements

Watershed HUC# (if known) **12100203** Emergency Need? **No**

Drainage area (mi² est.) **0.84**

Associated FME's - County **Caldwell**

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

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

Population at risk **212** # of structures **27** Critical facilities **0**

Farm/Ranch land impacted (acres) **53** Roadway(s) impacted (length) **0.4**

Number of low water crossings **0** Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr **128** # of structures removed from 100-yr **14**

Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) **0** Low water crossings removed from 100-yr **0**

Other benefits **None** Reduction in # of road closures over 10 years -

Impacts

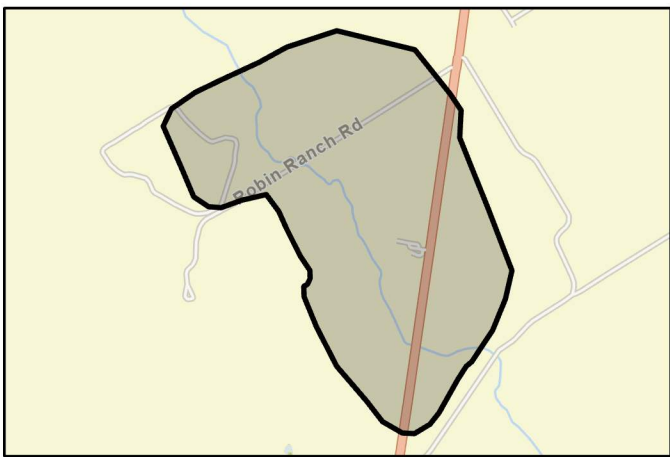
Negative impacts? **No** Negative impacts description **N/A**

Water supply contributions? **No** Water supply contribution description -

Estimated Cost

Project Cost **\$21,408,000** % Nature-Based **0** BCR **0.1**

Recurring costs **0** Issues **None identified at this time**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title Caldwell County Brushy Creek Channel Improvements Near Las Estancias II

ID# 113000081 Sponsor Caldwell (County)

RFPG recommend? - Reason for Recommendation -

Project Description

Channel improvements to reduce residential flooding within Las Estancias II subdivision

Watershed HUC# (if known) 12100203

Emergency Need? No

Drainage area (mi² est.) 0.38

Associated FME's -

County Caldwell,Hays

Associated FMS's -

Associated FMP's -

Existing 100-Year Flood Risk

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

Population at risk 17 # of structures 11 Critical facilities 0

Farm/Ranch land impacted (acres) 7.4 Roadway(s) impacted (length) 0.1

Number of low water crossings 0 Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr 17 # of structures removed from 100-yr 11

Critical facilities removed from 100-yr 0 Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) 0 Low water crossings removed from 100-yr 0

Other benefits None Reduction in # of road closures over 10 years -

Impacts

Negative impacts? No Negative impacts description N/A

Water supply contributions? No Water supply contribution description -

Estimated Cost

Project Cost \$9,482,000 % Nature-Based 0 BCR 0.1

Recurring costs 0 Issues None identified at this time



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Channel improvements to reduce residential/commercial flooding near SH142

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FME's County

Associated FMS's Associated FMP's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

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

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

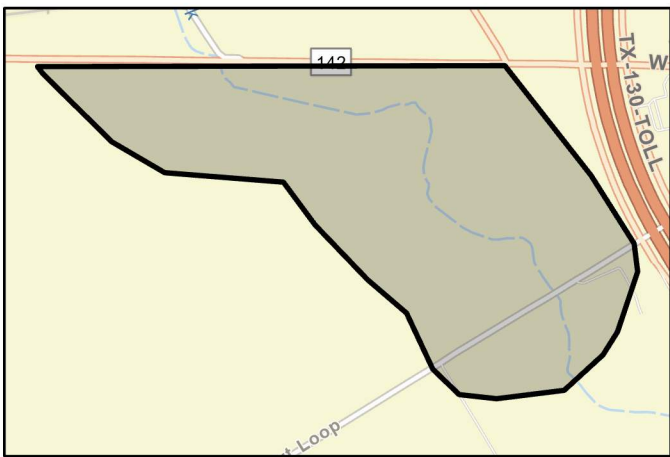
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title **Caldwell County CR 218 @ Boggy Creek and Clear Fork Plum Creek**

ID# **113000083** Sponsor **Caldwell (County)**

RFPG recommend? - Reason for Recommendation -

Project Description

Upgrade existing low water crossings to include box culverts and channel improvements

Watershed HUC# (if known) **12100203** Emergency Need? **No**

Drainage area (mi² est.) **0.42**

Associated FME's - County **Caldwell**

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

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

Population at risk **1** # of structures **1** Critical facilities **0**

Farm/Ranch land impacted (acres) **41.3** Roadway(s) impacted (length) **0.5**

Number of low water crossings **2** Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr **0** # of structures removed from 100-yr **0**

Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) **0** Low water crossings removed from 100-yr **0**

Other benefits **None** Reduction in # of road closures over 10 years -

Impacts

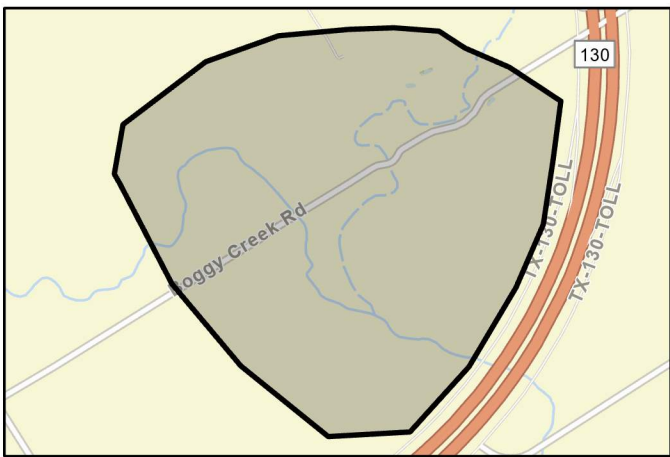
Negative impacts? **No** Negative impacts description **N/A**

Water supply contributions? **No** Water supply contribution description -

Estimated Cost

Project Cost **\$9,919,000** % Nature-Based **0** BCR **0**

Recurring costs **0** Issues **None identified at this time**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

Upgrade existing low water crossing to include box culverts and channel improvements

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FME's County

Associated FMS's Associated FMP's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

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

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

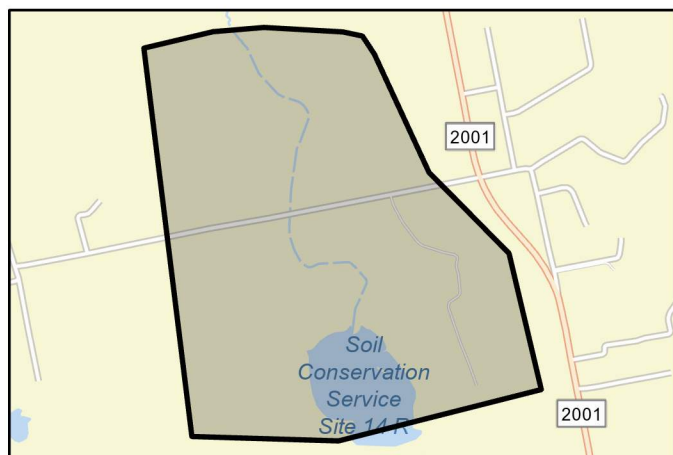
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

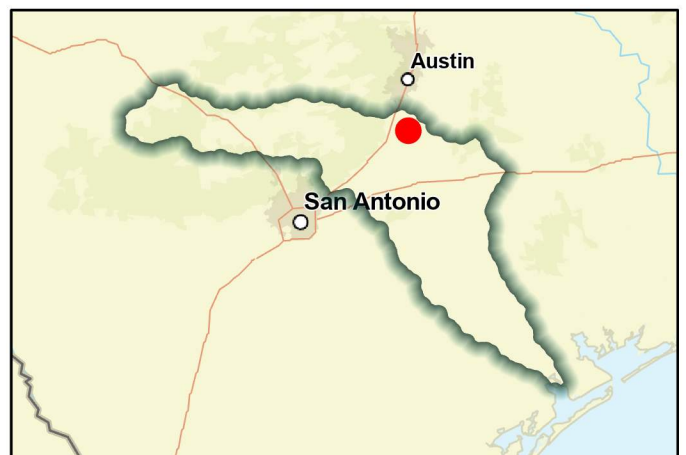
Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title **City of Kerrville First Street Low Water Crossing**

ID# **113000085** Sponsor **Kerrville (Municipality)**

RFPG recommend? - Reason for Recommendation -

Project Description

8-12' x 8' box culverts, channel improvements, and road raise

Watershed HUC# (if known) **12100201** Emergency Need? **No**

Drainage area (mi² est.) **0.05**

Associated FME's - County **Kerr**

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

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

Population at risk **270** # of structures **90** Critical facilities **0**

Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **0.7**

Number of low water crossings **1** Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr **33** # of structures removed from 100-yr **11**

Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) **0** Low water crossings removed from 100-yr **1**

Other benefits **None** Reduction in # of road closures over 10 years -

Impacts

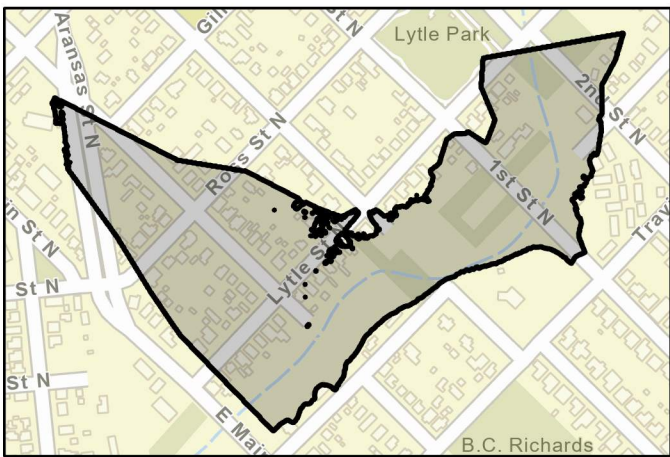
Negative impacts? **No** Negative impacts description **N/A**

Water supply contributions? **No** Water supply contribution description -

Estimated Cost

Project Cost **\$9,467,000** % Nature-Based **0** BCR **0.1**

Recurring costs **1000** Issues **None identified at this time**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

7-12' x 8' box culverts, channel improvements, and road raise

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FME's County

Associated FMS's Associated FMP's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

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

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

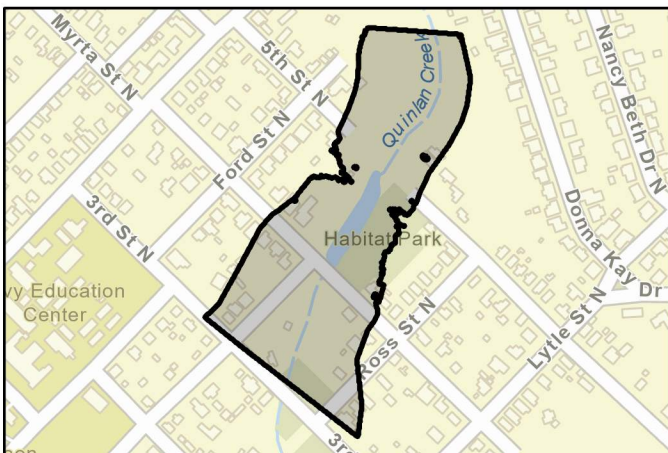
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title **City of New Braunfels Nacogdoches and Faust Drainage Improvements**

ID# **113000087** Sponsor **New Braunfels (Municipality)**

RFPG recommend? - Reason for Recommendation -

Project Description

This project involves expanding and adding drainage infrastructure to Faust Avenue and Nacogdoches Avenue to improve runoff collection through a storm sewer to outfall to the Guadalupe River.

Watershed HUC# (if known) **12100202** Emergency Need? **No**

Drainage area (mi² est.) **0.01**

Associated FME's - County **Comal**

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

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

Population at risk **629** # of structures **206** Critical facilities **0**

Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **0.5**

Number of low water crossings **0** Historical road closures **1**

100-Year Flood Risk Reduction

Population removed from 100-yr **629** # of structures removed from 100-yr **206**

Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) **-**

Road removed from 100-yr (miles) **0** Low water crossings removed from 100-yr **0**

Other benefits **None** Reduction in # of road closures over 10 years **1**

Impacts

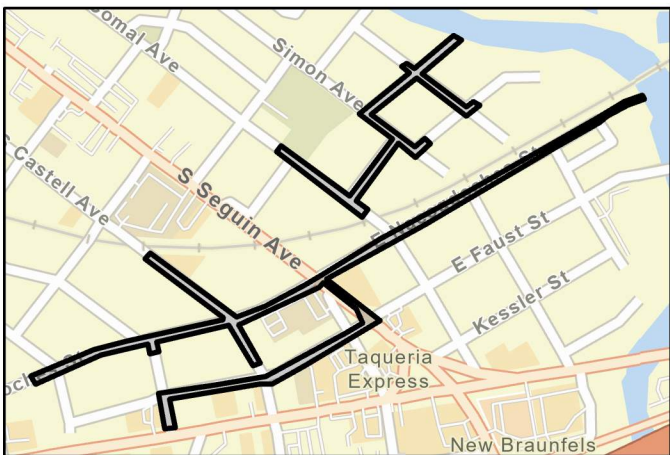
Negative impacts? **No** Negative impacts description **N/A**

Water supply contributions? **No** Water supply contribution description **-**

Estimated Cost

Project Cost **\$18,380,000** % Nature-Based **-** BCR **0.1**

Recurring costs **-** Issues **ROW/Easement acquisition at the outfall; permitting to outfall into the**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title **City of New Braunfels Castell Avenue Phase 1 Drainage Improvements**

ID# **113000088** Sponsor **New Braunfels (Municipality)**

RFPG recommend? - Reason for Recommendation -

Project Description

This project involves expanding and adding drainage infrastructure to Castell Avenue and Coll Street to convey local runoff through a storm sewer to outfall to the Guadalupe River. The existing drainage system is insufficient to convey the volume of runoff

Watershed HUC# (if known) **12100202** Emergency Need? **No**

Drainage area (mi² est.) **0.01**

Associated FME's - County **Comal**

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

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

Population at risk **0** # of structures **32** Critical facilities **0**

Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **0.5**

Number of low water crossings **0** Historical road closures **1**

100-Year Flood Risk Reduction

Population removed from 100-yr **60** # of structures removed from 100-yr **32**

Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) **-**

Road removed from 100-yr (miles) **0** Low water crossings removed from 100-yr **0**

Other benefits **None** Reduction in # of road closures over 10 years **1**

Impacts

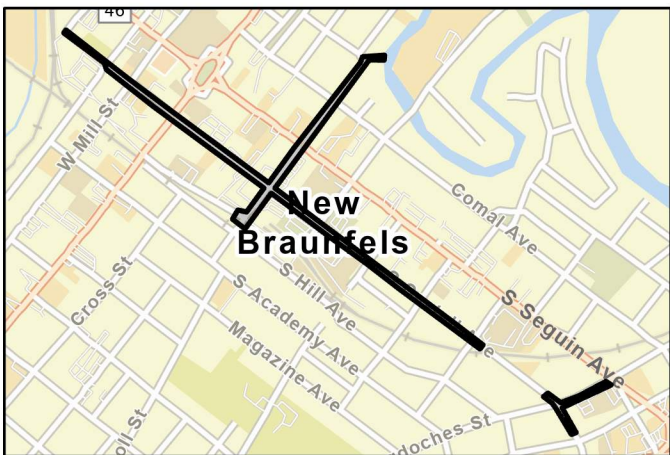
Negative impacts? **No** Negative impacts description **N/A**

Water supply contributions? **No** Water supply contribution description **-**

Estimated Cost

Project Cost **\$6,732,000** % Nature-Based **-** BCR **0.1**

Recurring costs **-** Issues **ROW/Easement acquisition at the outfall; permitting to outfall into the**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title

ID# Sponsor

RFPG recommend? Reason for Recommendation

Project Description

This project involves the installation of a siren system on a tower/pole located in the Cypress Creek watershed in Kendall County. Installation would include the siren components as well as power and telecomm connections.

Watershed HUC# (if known) Emergency Need?

Drainage area (mi² est.)

Associated FME's County

Associated FMS's Associated FMP's

Existing 100-Year Flood Risk

Flood risk type: Riverine? Coastal? Local? Playa? Other?

Population at risk # of structures Critical facilities

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

Number of low water crossings Historical road closures

100-Year Flood Risk Reduction

Population removed from 100-yr # of structures removed from 100-yr

Critical facilities removed from 100-yr Farm/Ranch land removed from 100-yr (acres)

Road removed from 100-yr (miles) Low water crossings removed from 100-yr

Other benefits Reduction in # of road closures over 10 years

Impacts

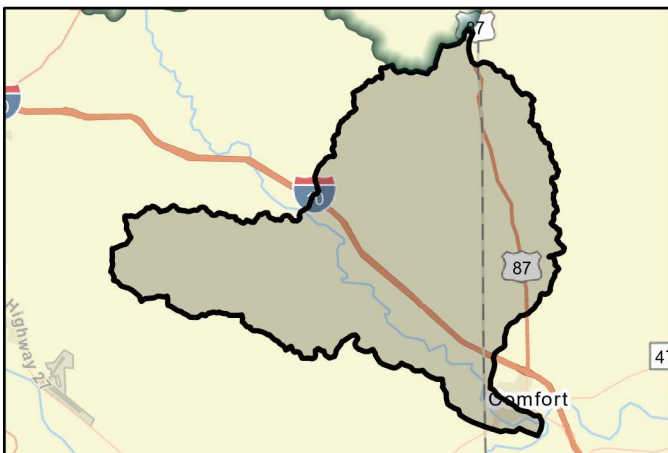
Negative impacts? Negative impacts description

Water supply contributions? Water supply contribution description

Estimated Cost

Project Cost % Nature-Based BCR

Recurring costs Issues



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title **City of San Marcos McKie Street at Willow Springs Creek Improvements**

ID# **113000090** Sponsor **San Marcos (Municipality)**

RFPG recommend? - Reason for Recommendation -

Project Description

LWC Upgrade (4-8'x6' RCBs, raise road 3') and Channel Improvements (500LF)

Watershed HUC# (if known) **12100203** Emergency Need? **No**

Drainage area (mi² est.) **0.01**

Associated FME's - County **Hays**

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

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

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

Farm/Ranch land impacted (acres) **0** Roadway(s) impacted (length) **0.1**

Number of low water crossings **1** Historical road closures **40**

100-Year Flood Risk Reduction

Population removed from 100-yr **0** # of structures removed from 100-yr **0**

Critical facilities removed from 100-yr **0** Farm/Ranch land removed from 100-yr (acres) **-**

Road removed from 100-yr (miles) **0** Low water crossings removed from 100-yr **0**

Other benefits **None** Reduction in # of road closures over 10 years **25**

Impacts

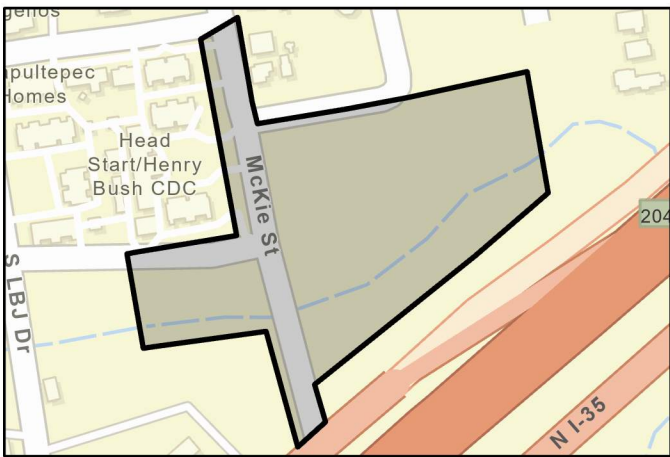
Negative impacts? **No** Negative impacts description **N/A**

Water supply contributions? **No** Water supply contribution description **-**

Estimated Cost

Project Cost **\$1,044,000** % Nature-Based **0** BCR **2.5**

Recurring costs **1000** Issues **Environmental Permitting, Utility Relocations, Residual Risk from San Marcos**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title **Edwards Aquifer Authority and San Marcos River Foundation Katz Recharge Conservation Easement**

ID# **113000091** Sponsor **Edwards Aquifer Authority**

RFPG recommend? - Reason for Recommendation -

Project Description

Funding for 25% of the acquisition of a conservation easement to catch runoff and avoid future increases in impervious cover to mitigate future floods

Watershed HUC# (if known) **12100203** Emergency Need? **No**

Drainage area (mi² est.) **0.11**

Associated FME's - County **Hays**

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

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

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

Farm/Ranch land impacted (acres) **2.2** Roadway(s) impacted (length) **0**

Number of low water crossings **0** Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits **water quality protection, rainwater infiltration and** Reduction in # of road closures over 10 years -

Impacts

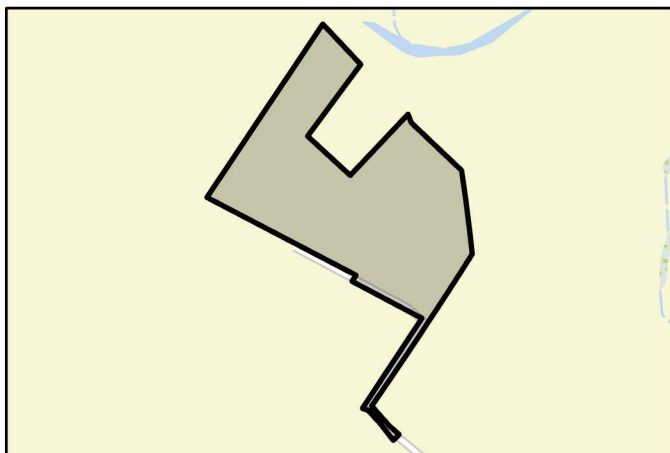
Negative impacts? **No** Negative impacts description **N/A**

Water supply contributions? **No** Water supply contribution description -

Estimated Cost

Project Cost **\$765,000** % Nature-Based **100** BCR **0**

Recurring costs - Issues **None identified at this time**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)

Title **Edwards Aquifer Authority and San Marcos River Foundation Peters Recharge Conservation Easement**

ID# **113000092** Sponsor **Edwards Aquifer Authority**

RFPG recommend? - Reason for Recommendation -

Project Description

Funding for 25% of the acquisition of a conservation easement to catch runoff and avoid future increases in impervious cover to mitigate future floods

Watershed HUC# (if known) **12100203**

Emergency Need? **No**

Drainage area (mi² est.) **0.13**

Associated FME's -

County **Hays**

Associated FMS's -

Associated FMP's -

Existing 100-Year Flood Risk

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

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

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

Number of low water crossings **0** Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits **water quality protection, rainwater infiltration and** Reduction in # of road closures over 10 years -

Impacts

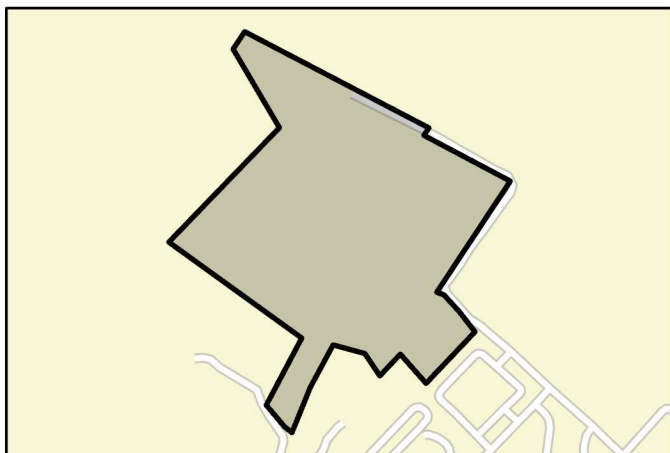
Negative impacts? **No** Negative impacts description **N/A**

Water supply contributions? **No** Water supply contribution description -

Estimated Cost

Project Cost **\$606,000** % Nature-Based **100** BCR **0**

Recurring costs - Issues **None identified at this time**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title **Edwards Aquifer Authority and San Marcos River Foundation Scull Crossing Flood Mitigation Conservation Easement**

ID# **113000093** Sponsor **Edwards Aquifer Authority**

RFPG recommend? - Reason for Recommendation -

Project Description

Funding for 25% of the acquisition of a conservation easement along the San Marcos River and adjacent crossing which floods. Benefits include riparian preservation, avoiding future increases in impervious cover.

Watershed HUC# (if known) **12100203** Emergency Need? **No**

Drainage area (mi² est.) **0.08**

Associated FME's - County **Guadalupe, Caldwell**

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

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

Population at risk **22** # of structures **5** Critical facilities **0**

Farm/Ranch land impacted (acres) **27.1** Roadway(s) impacted (length) **0**

Number of low water crossings **0** Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits **water quality protection, rainwater infiltration and** Reduction in # of road closures over 10 years -

Impacts

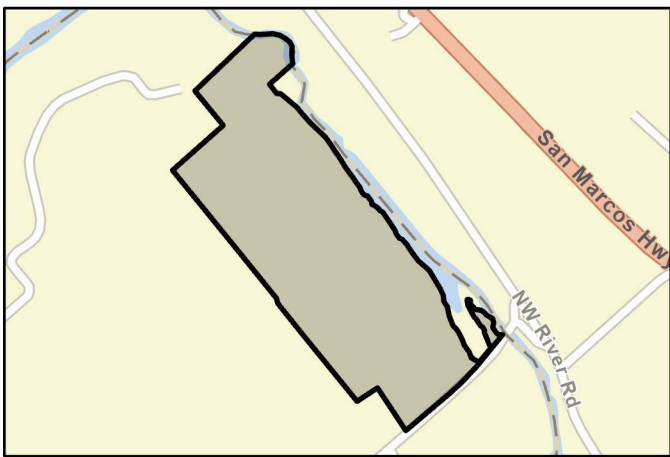
Negative impacts? **No** Negative impacts description **N/A**

Water supply contributions? **No** Water supply contribution description -

Estimated Cost

Project Cost **\$978,000** % Nature-Based **100** BCR **0**

Recurring costs - Issues **None identified at this time**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title **Edwards Aquifer Authority and San Marcos River Foundation Berry Riparian Flood Mitigation Conservation Easement**

ID# **113000094** Sponsor **Edwards Aquifer Authority**

RFPG recommend? - Reason for Recommendation -

Project Description

Funding for 50% of the acquisition of a conservation easement along Hemphill Creek. Benefits include riparian preservation, avoiding future increases in impervious cover.

Watershed HUC# (if known) **12100203** Emergency Need? **No**

Drainage area (mi² est.) **0.08**

Associated FME's - County **Caldwell**

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

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

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

Farm/Ranch land impacted (acres) **4** Roadway(s) impacted (length) **0**

Number of low water crossings **0** Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits **water quality protection, rainwater infiltration and** Reduction in # of road closures over 10 years -

Impacts

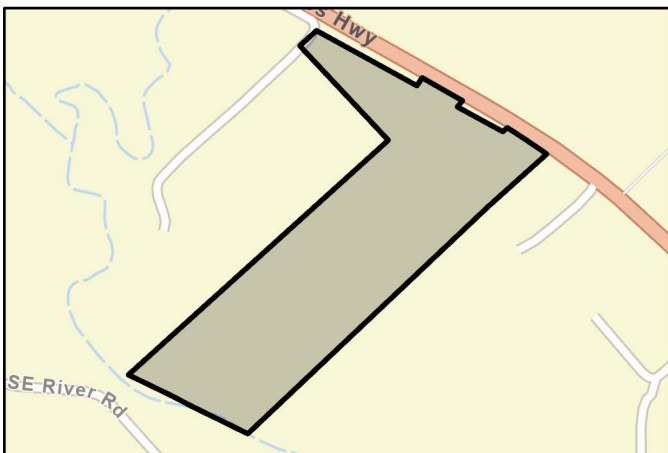
Negative impacts? **No** Negative impacts description **N/A**

Water supply contributions? **No** Water supply contribution description -

Estimated Cost

Project Cost **\$120,000** % Nature-Based **100** BCR **0**

Recurring costs - Issues **None identified at this time**



FMP area



Regional view of FMP area

Flood Mitigation Project (FMP)



Title **Edwards Aquifer Authority and San Marcos River Foundation Turner Riparian Flood Mitigation Conservation Easement**

ID# **113000095** Sponsor **Edwards Aquifer Authority**

RFPG recommend? - Reason for Recommendation -

Project Description

Funding for 50% of the acquisition of a conservation easement along Hemphill Creek and Morrison Creek. Benefits include riparian preservation, avoiding future increases in impervious cover.

Watershed HUC# (if known) **12100203** Emergency Need? **No**

Drainage area (mi² est.) **0.07**

Associated FME's - County **Caldwell**

Associated FMS's - Associated FMP's -

Existing 100-Year Flood Risk

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

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

Farm/Ranch land impacted (acres) **4.2** Roadway(s) impacted (length) **0**

Number of low water crossings **0** Historical road closures -

100-Year Flood Risk Reduction

Population removed from 100-yr - # of structures removed from 100-yr -

Critical facilities removed from 100-yr - Farm/Ranch land removed from 100-yr (acres) -

Road removed from 100-yr (miles) - Low water crossings removed from 100-yr -

Other benefits **water quality protection, rainwater infiltration and** Reduction in # of road closures over 10 years -

Impacts

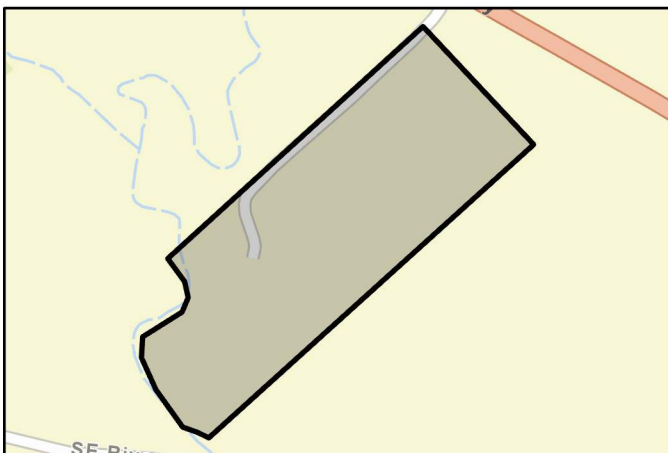
Negative impacts? **No** Negative impacts description **N/A**

Water supply contributions? **No** Water supply contribution description -

Estimated Cost

Project Cost **\$245,000** % Nature-Based **100** BCR **0**

Recurring costs - Issues **None identified at this time**



FMP area



Regional view of FMP area