

Appendix G

Proposed Amendments

Contents

Summary	G-2
Background	G-2
Amendment No.1: Add Three Mitigation Actions for City of Cuero	G-3
Amendment No. 2: Add Drainage District No. 1 as Participating Jurisdiction	G-5
Adoption Resolutions and Approvals.....	G-7
DeWitt County Drainage District No. 1.....	G-7
Guadalupe-Blanco River Authority.	G-9
City of Cuero.....	G-11

Proposed Amendment

Hazard Mitigation Action Plan for the Guadalupe River Basin

October 8, 2007

Summary

This Amendment proposes to revise the May 31, 2005 Hazard Mitigation Plan for the Guadalupe River Basin entitled, “*Protecting the Region Against All Hazards.*” It proposes to make two amendments to the Plan.

The first amendment adds three mitigation actions for the City of Cuero, Texas. The new mitigation actions were added a result of routine rain events and the heavy storms and rains which soaked Texas in the summer 2007, resulting in Presidential Disaster Declaration DR-1709-TX, affecting seventy-seven counties in Texas. This disaster event and other less severe events impacting DeWitt County provided updated information on the extent of the flood risk and the specific actions needed to mitigate that risk.

The second amendment adds the DeWitt County Drainage District No. 1 (“the Drainage District”) as a participating jurisdiction in the Plan. The Drainage District participated in the development of the Plan but was not listed as a participating jurisdiction in Table 1-1. Inclusion of the Drainage District as a participating jurisdiction will ensure that it is directly eligible to participate in grant opportunities as a result of Presidential Disaster Declaration (DR) 1709.

The proposed Amendments are being developed consistent with the procedures outlined in Section 21 of the Plan, Plan Implementation and Maintenance Procedures, and guidance from the Governor’s Division of Emergency Management. It was posted to the Guadalupe-Blanco River Authority (GBRA) website on October 8, 2007 for public review and comment and revised based on comments received.

Background

GBRA, in partnership with 26 participating jurisdictions in its seven-county district, developed a Hazard Mitigation Plan for the Guadalupe River Basin. The Plan was funded under a Pre-Disaster Mitigation Grant from the Federal Emergency Management Agency and approved by FEMA on May 31, 2005. The purpose of the Plan is to reduce future damage from a full range of natural and man-caused disasters. The Plan is available at:

<http://www.gbra.org/Projects/HazardMitigation.aspx>

Amendment No. 1: Add Three Mitigation Actions for the City of Cuero

The City of Cuero proposes to add three mitigation actions to Section 20, starting on page 20-23 of the existing Plan. The new mitigation are presented below.

City of Cuero (DeWitt County)

ACTION: Install storm sewers and undertake drainage project to mitigate flooding in an area encompassing 8 blocks of city streets, including 3 blocks of W. Church, 1 block of Terrell, 1 block of Indianola, 1 block of Frederick William, 1 block of Gazzie and 1 block of West Main within the City of Cuero.

<i>Hazard</i>	Flooding
<i>Background</i>	This drainage project involves the installation of 2,100 lf of 36" RCP storm sewer and 1,500 lf of 24" RCP storm sewer and inlets. This area experiences localized flooding from routine rain events. This area was also affected by the river flood of 1998. The 1998 flood damaged low income and elderly housing units owned by the Cuero Housing Authority as well as other residents in the neighborhood.
<i>Benefits</i>	This action will improve flow of flood waters during routine rain events and major storms. It will reduce repetitive flood losses and protect public and private facilities from flooding. It will enable drainage channels to handle a much larger volume of water in a shorter amount of time.
<i>Priority</i>	High
<i>Estimated cost</i>	\$1,725,000.
<i>Responsible organization</i>	The City of Cuero
<i>Target completion date</i>	Two years from award of grant funds
<i>Funding sources</i>	State and Federal grants
<i>Related objective(s)</i>	5.1, 5.2

City of Cuero (DeWitt County)

ACTION: Install storm sewers and undertake drainage project to mitigate flooding in an area encompassing two blocks of Benton, 1 block of Bailey, 1 block between Bailey and West Reuss Boulevard, 2 blocks of Terrell, and 5 blocks of Prairie within the City of Cuero.

<i>Hazard</i>	Flooding
<i>Background</i>	This drainage project involves the installation of 500 lf of 4' by 8' concrete box, 1,300 lf of 4' by 6' concrete box, 1,300 lf of 4' by 4'

concrete box, 300 lf of 42” RCP storm sewer, 500 lf of 24” RCP storm sewer and inlets along installation. Every rain event that drops even small amounts of rain in a short period of time affects this flat area of the city. On each occasion, the city must install barricades or have city personnel monitor the area, specifically the Benton and Bailey Street areas.

Benefits This action will improve flow of flood waters during routine rain events and major storms. It will reduce repetitive flood losses and protect public and private facilities from flooding. It will enable drainage channels to handle a much larger volume of water in a shorter amount of time.

Priority High

Estimated cost \$3,500,000.

Responsible organization The City of Cuero

Target completion date Two years from award of grant funds

Funding sources State and Federal grants

Related objective(s) 5.1, 5.2

City of Cuero (DeWitt County)

ACTION: Evaluate current communications assets and develop communications inter-operability among city departments.

Hazard High winds, hail, localized flooding and severe lightning

Background The City of Cuero need communications inter-operability within itself. The emergency services and public works departments are unable to communicate during emergencies. A plan to evaluate current assets and provide recommendations to rectify this communications problem must be rectify this communications problem must be conducted.

Benefits This action will enable various city departments such as emergency services and public works to communicate in emergencies. It will help facilitate communication and coordination in disaster events.

Priority High

Estimated cost \$75,000 (\$10,000 for plan development, \$65,000 for equipment)

Responsible organization The City of Cuero

Target completion date Two years from award of grant funds

Funding sources State and Federal grants

Related objective(s) 4.2

Amendment No. 2: Add DeWitt County Drainage District No 1. as a Participating Jurisdiction

The DeWitt County Drainage District was created by an order passed by DeWitt County Commissioner Court May 6, 1914. The District is governed by a board of three Commissioners who are appointed to two-year terms by DeWitt County Commissioners Court. The District was created through feasibility and necessity and at the time, the lands embraced within the metes and bounds of the district, situated within 1 ½ to 2 miles of the Guadalupe River, being low and flat with very little, if any, natural slope or drainage. The original development of the district included drainage canals engineered and constructed to create a proper and efficient solution to storm water elimination. The district has continuously maintained and updated said drainage canals to handle storm water elimination.

The DeWitt County Drainage District participated in the development of the Plan through DeWitt County. Through the County’s Emergency Management Coordinator and Hazard Mitigation Team member, the Drainage District assisted in the identification of hazards and assessment of hazard risk. Data from the Drainage District was utilized in development of the Plan. The Drainage District assisted the City of Cuero and DeWitt County in formulation of mitigation actions. Numerous discussions were held during the development of the Plan between officials of the City, County and the Drainage District. The Drainage District developed a specific mitigation action for inclusion in the Plan, for which the District was the sole responsible organization for implementation. The Drainage District, however, was not listed as a participating jurisdiction in the Plan. The Drainage District’s mitigation action reads as follows (see page 20-20):

DeWitt County

ACTION: Redesign the main stormwater drainage outlet from the City of Cuero to the Guadalupe River

<i>Hazard</i>	Flood
<i>Background</i>	The City of Cuero has installed and will continue to install larger storm sewers in sections of the city to prevent flooding. This will cause floodwaters from the city to enter the drainage ditch at a much faster rate, which could cause flooding of property near the drainage ditch.
<i>Benefits</i>	Prevention of flooding near the drainage ditch
<i>Priority</i>	High
<i>Estimated cost</i>	\$2,000,000 to \$3,000,000
<i>Responsible organization</i>	DeWitt County Drainage District No. 1
<i>Target completion date</i>	Five years from date of receipt of grant funding
<i>Funding sources</i>	Grants
<i>Related objective(s)</i>	4.3, 5.1, 5.2

Source: May 15, 2005 Hazard Mitigation Plan for the Guadalupe River Basin

This action, to be undertaken by the Drainage District, involves installation/construction of a basket drop structure and reconstruction of drainage channels to control flooding and erosion from the City of Cuero to the Guadalupe River.

Installation of a basket drop structure will assist in the stabilization of banks and holding bottoms of channel on grade. The drop structure will also aid in the protection of two main sewer trunk lines which could become unstable due to erosion without the installation of the drop structure. The reconstruction includes reshaping of drainage channels to stabilize durability of earthen banks to control erosion. Channel bottoms would be enlarged to increase the carrying capacity of increased flood water flow created by the recently installed City of Cuero storm sewer project. Newly reshaped channels would be strengthened through vegetation management with the seeding of grasses to further protect against erosion.

Need for the Amendment

Major flood events have occurred in the area covered by the Drainage District in 1981, 1994, and 1998. Additional, less severe flood events have occurred in 2002 and 2004. With the District's proximity to the Texas Gulf Coast, flood events frequently occur in conjunction with hurricanes and formation of associated storm systems.

During the 1998 flood as well as Hurricane Claudette extremely heavy rainfall amounts caused severe erosion to drainage channels. A project currently underway by the City of Cuero to enhance drainage within the City limits will necessitate drainage channels to handle a much larger volume of water in a shorter amount of time. The drop structure would hold upstream channels on grade and eliminate erosion. There is a critical need to reconstruct the drainage channel system and install a basket type drop structure to enhance elimination of flood/storm water and to control flooding and erosion.

Approximately 7,000 residents are at risk from this hazard. Critical state facilities are at risk and could be impacted if sewer lines are breached by erosion or drainage channel caused by flood waters. DeWitt County is a Category "C" Repetitive Loss Community with 17 losses since September 2003.

This proposed Amendment is needed to ensure that the Drainage District is directly eligible for participation in the Hazard Mitigation Grant Program and in projects under the Pre-Disaster Mitigation Grant Program and can take advantage of grant opportunities under Presidential Disaster Declaration (DR) 1709-TX.

The geographic boundaries of the Drainage District are nearly coterminous with the geographic boundaries of the City of Cuero. Therefore, the Drainage District contributed to the risk assessment and shares the same risks facing the City of Cuero as presented in Sections 4 through 15 of the Plan. No additional hazards threaten the District. The Drainage District shares the stated mitigation goals and objectives in Section 17. The Drainage District was involved in the development of the Plan which involved the general public and the City and County, as presented in Section 2. Draft Resolutions adopting the Plan amendment are attached.

Resolution
For Adoption of the Hazard Mitigation Plan for the Guadalupe River Basin
and Proposed Plan Amendment
DeWitt County Drainage District No. 1

WHEREAS, DeWitt County Drainage District No. 1 (“the Drainage District”) is subject to periodic flooding and other natural and man-caused hazards with the potential to cause damages to people properties within the area; and

WHEREAS, the Drainage District desires to prepare and mitigate for such circumstances; and

WHEREAS, under the Disaster Mitigation Act of 2000, the United States Federal Emergency Management Agency (FEMA) requires that local jurisdictions have in place a FEMA-approved Hazard Mitigation Action Plan as a condition of receipt of certain future Federal mitigation funding after November 1, 2004;

WHEREAS, to assist cities and counties in meeting this requirement, the Guadalupe-Blanco River Authority, with the assistance of H2O Partners, Inc. of Austin, Texas, has developed a basin-wide, multi-jurisdictional Hazard Mitigation Plan covering 19 cities and seven counties, approved by FEMA on May 15, 2005 entitled, “*Hazard Mitigation Plan for the Guadalupe River Basin: Protecting the Region Against All Hazards.*”

WHEREAS, the Drainage District participated in the development of the Plan through DeWitt County, including the identification of hazards, risk assessment, and formulation of mitigation actions, but was not listed as a participating jurisdiction in the Plan; and,

WHEREAS, an Amendment to the Plan was proposed on October 8, 2007 to include the Drainage District as a participating jurisdiction, thereby ensuring that it is directly eligible to participate in certain mitigation grant opportunities.

NOW, therefore, be it resolved, that the DeWitt County Drainage District No. 1 hereby: Adopts those portions of the Plan entitled, “*Hazard Mitigation in the Guadalupe River Basin: Protecting the Region Against All Hazards, 2004 – 2009*” that pertain to the Drainage District and adopts the October 8, 2007 Proposed Amendment to the Plan; and

Vests _____ (OFFICIAL, OFFICE OR AGENCY) with the responsibility, authority, and the means to:

- (a) Inform all concerned parties of this action.
- (b) Develop an addendum to this Hazard Mitigation Plan if the District’s unique situation warrants such an addendum.

Appoints _____ Gus Leck, Chairman, DeWitt County
Drainage District No. 1 to assure that the Hazard Mitigation Plan be reviewed at
least annually and that any needed adjustment to the Drainage District's
addendum to the Hazard Mitigation Plan be developed and presented to the
Drainage District's Board of Directors for consideration.

Agrees to take such other official action as may be reasonably necessary to carry out the
objectives of the Hazard Mitigation Plan.

Adopted on _____

By: _____

Date

Gus Leck
Chair
DeWitt County Drainage District No. 1

(Signatures of Governing Board)

Certified by: _____

SEAL

Date:

Resolution
For Adoption of the Proposed Amendment to the Hazard Mitigation Plan for
the Guadalupe River Basin
Guadalupe-Blanco River Authority

WHEREAS, certain areas of the Guadalupe River Basin are subject to periodic flooding and other natural and man-caused hazards with the potential to cause damages to people properties within the area; and

WHEREAS, the Guadalupe-Blanco River Authority has facilities and operations in the statutory district, and desires to prepare and mitigate such circumstances; and

WHEREAS, under the Disaster Mitigation Act of 2000, the United States Federal Emergency Management Agency (FEMA) requires that local jurisdictions have in place a FEMA-approved Hazard Mitigation Action Plan as a condition of receipt of certain future Federal mitigation funding after November 1, 2004;

WHEREAS, to assist cities and counties in meeting this requirement, the Guadalupe-Blanco River Authority, with the assistance of H2O Partners, Inc. of Austin, Texas, has developed a basin-wide, multi-jurisdictional Hazard Mitigation Plan covering 19 cities and seven counties, approved by FEMA on May 15, 2005 entitled, "*Hazard Mitigation Plan for the Guadalupe River Basin: Protecting the Region Against All Hazards.*"

WHEREAS, the DeWitt County Drainage District participated in the development of the Plan through DeWitt County, including the identification of hazards, risk assessment, and formulation of mitigation actions, but was not listed as a participating jurisdiction in the Plan; and,

WHEREAS, an Amendment to the Plan was proposed on October 8, 2007 to add three mitigation actions for the City of Cuero and include DeWitt County Drainage District No. 1 as a participating jurisdiction, thereby ensuring that it is directly eligible to participate in certain mitigation grant opportunities.

NOW, therefore, be it resolved, that the Guadalupe-Blanco River Authority hereby:

Adopts the October 8, 2007 Proposed Amendment to the Plan; and

Vests the General Manager of the Guadalupe-Blanco River Authority with the responsibility, authority, and the means to:

- (a) Inform all concerned parties of this action.
- (b) Develop an addendum to this Hazard Mitigation Plan if the Authority's unique situation warrants such an addendum.

Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Adopted on _____

Date

John Schneider, Jr., Chairman
Board of Directors
Guadalupe-Blanco River Authority

Approval of Plan Amendment
For Adoption of the Hazard Mitigation Plan for the Guadalupe River Basin
and Proposed Plan Amendment
The City of Cuero

WHEREAS, the City of Cuero (“the City”) is subject to periodic flooding and other natural and man-caused hazards with the potential to cause damages to people properties within the area; and

WHEREAS, the City desires to prepare and mitigate for such circumstances; and

WHEREAS, under the Disaster Mitigation Act of 2000, the United States Federal Emergency Management Agency (FEMA) requires that local jurisdictions have in place a FEMA-approved Hazard Mitigation Action Plan as a condition of receipt of certain future Federal mitigation funding after November 1, 2004, and the plan is to be amended to reflect current risks and mitigation actions;

WHEREAS, to assist cities and counties in meeting this requirement, the Guadalupe-Blanco River Authority, with the assistance of H2O Partners, Inc. of Austin, Texas, has developed a basin-wide, multi-jurisdictional Hazard Mitigation Plan covering 19 cities and seven counties, approved by FEMA on May 15, 2005 entitled, “*Hazard Mitigation Plan for the Guadalupe River Basin: Protecting the Region Against All Hazards.*”

WHEREAS, an Amendment to the Plan is proposed by the City to improve the flow of flood waters and provide communications inter-operability in emergency situations;

NOW, therefore, be it resolved, that the City adopts the October 8, 2007 Proposed Amendment to the Plan; and

Vests _____ (OFFICIAL, OFFICE OR AGENCY) with the responsibility, authority, and the means to:

- (a) Inform all concerned parties of this action.
- (b) Develop an addendum to this Hazard Mitigation Plan if the District’s unique situation warrants such an addendum.

Appoints _____ to assure that the Hazard Mitigation Plan be reviewed at least annually and that any needed adjustment to the Hazard Mitigation Plan be developed and presented to the City Council for consideration.

Agrees to take such other official action as may be reasonably necessary to carry out the objectives of the Hazard Mitigation Plan.

Approved on _____

By: _____

Date

Emergency Management Coordinator

Approved on _____

By: _____

Date

Mayor
City of Cuero

