

SUPPLEMENTAL WATERSHED PLAN AGREEMENT NO. V

Between the

McLennan County Soil and Water Conservation District  
Local Organization

Hill County-Blackland Soil and Water Conservation District  
Local Organization

Limestone-Falls Soil and Water Conservation District  
Local Organization

McLennan and Hill Counties Tehuacana Creek Water Control  
and Improvement District No. I  
Local Organization

McLennan County Commissioners Court  
Local Organization

Hill County Commissioners Court  
Local Organization

(hereinafter referred to as the Sponsoring Local Organization)

State of Texas

and the

Soil Conservation Service  
United States Department of Agriculture  
(hereinafter referred to as the Service)

Whereas, the Watershed Plan Agreement for the Tehuacana Creek watershed, State of Texas, executed by the Sponsoring Local Organization named therein and the Service, became effective on the 2nd day of September 1959; and

Whereas, the Supplemental Watershed Plan Agreement No. I executed by the Sponsoring Local Organization named herein, and the Service became effective on the 18th day of March 1960; and

Whereas, the Supplemental Watershed Plan Agreement No. II for said watershed, executed by the Sponsoring Local Organization named therein and the Service, became effective on the 30th day of August 1971; and

Whereas, the Supplemental Watershed Plan Agreement No. III for said watershed, executed by the Sponsoring Local Organization named therein and the Service, became effective on the 4th day of January 1974; and

Whereas, the Supplemental Watershed Plan Agreement No IV for said watershed, executed by the Sponsoring Local Organization named therein and the Service, became effective on the 26th day of December 1974; and

Whereas, in order to complete the overall resource development program and to control critical sediment source areas for Tehuacana Creek watershed, it has become necessary to modify the agreement to include critical area treatment measures; and

Whereas, there has been developed through the cooperative efforts of the local organization and the Service, a mutually satisfactory plan for critical area treatment on the Tehuacana Creek watershed, which supplement is annexed to and made a part of this agreement; and

Whereas, the supplement describes the watershed problems and sets forth a plan for works of improvement, the kinds and quantities of measures to be installed, the estimated cost, cost-sharing arrangements, maintenance and other responsibilities of those participating in the project;

Now, therefore, in view of the foregoing consideration, the local organization and the Secretary of Agriculture, through the Service, hereby agree on the supplement, and further agree that the works of improvement as set forth in said supplement will be installed, operated and maintained substantially in accordance with the terms, conditions, and stipulations provided therein.

1. Paragraph numbered 3 in modified by adding the following:

The percentages of installation cost of the critical area treatment measures to be paid by the Sponsors and by the Service are as follows:

<u>Works of Improvement</u>	<u>Sponsors</u> (percent)	<u>Service</u> (percent)	<u>Estimated Installation Cost</u> (dollars)
Critical area treatment	20	80	230,000

The Sponsoring Local Organization and the Service further agree to all other terms, conditions, and stipulations of said watershed plan agreement not modified herein.

McLennan County Soil and  
Water Conservation District  
Local Organization  
P.O. Box 691, Waco, Texas 76703  
Address Zip Code

By David Simon  
Title Chairman  
Date 11-14-78

The signing of this agreement was authorized by a resolution of the governing  
body of the McLennan County Soil & Water Conservation District adopted at a meeting  
held on November 14, 1978  
Local Organization

Leon Thompson  
Secretary, Local Organization  
11-14-78  
Date

704 Citizens Tower, Waco, TX 76701  
Address Zip Code

Hill County-Blackland Soil and  
Water Conservation District  
Local Organization  
Box 756  
McNelly Cross 76645  
Address Zip Code

By Ray Dungey  
Title Chairman  
Date 11-30-78

The signing of this agreement was authorized by a resolution of the  
governing body of the Hill County-Blackland Soil & Water Conservation District  
adopted at a meeting held on \_\_\_\_\_  
Local Organization

Cliff F. Howell  
Secretary, Local Organization  
11-30-78  
Date

1211 Poplar Lane 76631  
Address Zip Code

Limestone-Falls Soil and  
Water Conservation District  
Local Organization  
P.O. Box 195  
Groesbeck, TX 76642  
Address Zip Code

By James W. McClintic  
Title Chairman  
Date 12/18/78

The signing of this agreement was authorized by a resolution of the  
governing body of the Limestone-Falls Soil and Water Conservation District adopted  
at a meeting held on 12/18/78  
Local Organization

Erwin R. Neumann  
Secretary, Local Organization  
12/18/78  
Date

1202 Elmwood  
Mankin, TX 76661  
Address Zip Code

McLennan and Hill Counties Teguacana Creek  
Water Control & Improvement District No. 1

W. W. Kirkland

Local Organization

Title: President

Box 66, Leroy, Texas 76664  
Address Zip Code

Date November 15, 1978

The signing of this agreement was authorized by a resolution of the governing  
body of the McLennan & Hill Counties Teguacana Creek Water Control & Improvement  
Local Organization

District No. 1 adopted at a meeting held on November 15, 1978

Arthur King

Secretary, Local Organization

P.O. Box 651, Waco, TX 76703  
Address Zip Code

November 15, 1978

Date

McLennan County Commissioners  
Court

Local Organization

P.O. Box 1727, Waco, TX 76703

Address Zip Code

By [Signature]

Title County Judge

Date November 20, 1978

The signing of this agreement was authorized by a resolution of the  
governing body of the McLennan County Commissioners Court adopted  
Local Organization

at a meeting held on November 20, 1978

Frank Denny, County Clerk

Marianne J. Berkeley  
by Marianne Berkeley, Deputy  
Secretary, Local Organization

P.O. Box 1727, Waco, TX 76703  
Address Zip Code

November 20, 1978

Date

Hill County Commissioners Court

Local Organization

Court House

Hillburo Texas 76645

Address Zip Code

Title County Judge

Date 12-1-78

The signing of this agreement was authorized by a resolution of the  
governing body of the Hill County Commissioners Court adopted  
Local Organization

at a meeting held on 11-27-78

[Signature]  
Secretary, Local Organization

Court House  
Hillburo TEXAS 76645  
Address Zip Code

Date 12-1-78

Soil Conservation Service  
United States Department of Agriculture

Approved by:

George T. Davis Jr.  
State Conservationist ACTING

JAN 11 1979

Date

SUPPLEMENTAL  
WATERSHED PLAN NO. V

TEHUACANA CREEK WATERSHED  
McLennan, Hill and Limestone Counties, Texas

September 1978

PURPOSE OF THE SUPPLEMENTAL PLAN

The purpose of this supplemental watershed plan for the Tehuacana Creek watershed is to provide a method to treat critical sediment source areas in the watershed not now provided for in the plan.

The original plan, as supplemented, provided watershed protection and flood prevention funds for accelerated technical assistance to help landowners of the watershed to plan and apply land treatment measures and provided for the installation of a system of 27 floodwater retarding structures, 32 grade stabilization structures and 10.1 miles of channel work. The accelerated land treatment assistance, 25 floodwater retarding structures and 11 grade stabilization structures have been completed.

There now exist in the watershed critical sediment source areas which need to be stabilized to reduce erosion and sedimentation, protect structural measures and improve environmental conditions.

The purpose of this supplement is to provide for the use of Public Law 566 funds on a cost-share basis to install land treatment measures to control and stabilize critical sediment source areas.

WATERSHED PROBLEMS

Although many of the structural measures and all of the accelerated land treatment measures have been installed, there still remain areas which yield large amounts of sediment. Erosion from critical areas is a problem and critical area treatment is especially important in providing additional cover that will reduce the rate of sediment laden runoff. This sediment contributes to the filling of downstream reservoirs, pollutes streams and rivers reducing both quality of water and capacity to carry water, damage roads and bridges and provides deposition to downstream flood plains and adversely affects the overall quality of our rural environment.

WORKS OF IMPROVEMENT TO BE INSTALLED

The works of improvement to be installed consist of land treatment measures necessary to stabilize critical sediment source areas on about 100 acres. These measures may include practices such as clearing, shaping, preparation for vegetation, mulching, fertilizing, vegetating, fencing and construction of appurtenant grade stabilizing structures such as pipe drops, drop inlets, formless concrete chutes, diversions and dams. Vegetation will include plants such as trees, shrubs, vines, grasses, and legumes as appropriate for the site.

EXPLANATION OF INSTALLATION COSTS

The total estimated cost of installing the planned measures covered by this supplement is \$280,000 of which \$230,000 is for construction (stabilization) cost and \$50,000 is for technical assistance. Of the \$230,000 cost for construction 80 percent, or \$184,000 will be Public Law 566 cost and 20 percent, or \$46,000 will be local cost.

BENEFITS FROM WORKS OF IMPROVEMENT

These land treatment measures when efficiently applied to the critical areas and properly maintained will be effective in the prevention of the deterioration of the watershed. Valuable soil that is irreplaceable will be protected and further loss of a resource will be prevented. The productivity and monetary value of adjoining areas will be maintained or enhanced by the healing of these critical areas. Benefits will accrue from protection of land and improvements which otherwise would be damaged through the extension of gully systems. Society as a whole will benefit through the prevention of destruction of an irreplaceable resource. Sediment being delivered to downstream reservoirs, flood plains, and streams will be reduced.

Vegetative treatment of these areas will provide additional habitat, cover, protection, and breeding places for wildlife. This in turn can help to maintain the ecological balance of nature.

Treatment of the exposed areas will improve the appearance and enhance the beauty of the terrain for the air and land travelers by minimizing or eliminating the visual impact of raw eroding areas.

Economic conditions will be improved by maintaining the productivity of the area and making it possible for owners and operators to continue with economic units on fewer acres. The community will benefit because the tax base will be maintained and strengthened so that tax supported community services can be financed.

INSTALLATION AND FINANCING

Critical area stabilization measures will be planned and installed through cooperation of landowners and operators with their soil and water conservation district. These are measures that are to be applied to active gullies and badly eroded areas and the treatment costs are outside the financial capabilities of landowners and operators with technical and financial assistance available. These measures will be installed with technical and financial assistance from PL-566 funds.

Critical area treatment will be a part of agreed-to conservation practices included in new or revised conservation plans for each affected operating unit. These conservation plans will include an installation schedule; requirements for operation, maintenance and replacement; provision for access by the Service and the district or its agent to inspect installation and operation and maintenance; and signatures by the district and owner or operator. These plans will serve as the operation and maintenance agreement. The conservation district will provide the leadership and coordination. The Service will provide technical assistance through the conservation district for preparation of the conservation plan, installation plans, standards and specifications, and for layout and inspection of construction.

Installation of critical area treatment will be by the average cost method.

Immediately before installation, the cooperater and the Service will enter into a long-term agreement (5 to 10 years). The agreement will provide for installing the critical area treatment on the cooperater's operating unit in accordance with a conservation plan of operations and installation schedule. The agreement will include the cost-share rate, the work covered by the agreement, technical assistance for installation, duration of agreement, inspection and related subjects. The cooperater involved may install the treatment using his own labor and equipment or employ the services of vendors and contractors to install the measure. Landrights are provided by the cooperater through the district agreement.

The Service will share 80 percent of the cost of installing critical area treatment. This cost sharing will be based on actual cost not to exceed average cost for shaping and grading or average cost when the cooperater uses his own labor and equipment. The practice will be installed on an average cost basis unless the agreement specifies that practices, or components of a practice will be on an actual cost not to exceed the average cost. Average costs are determined from actual costs for similar work recently installed in the general area.

Upon completion of a practice or component of a practice by a vendor or contractor, the cooperater will provide the Service with records to show actual cost of the work. The Service will take steps necessary to ensure that cost records of work that the cooperater has performed by vendors and contractors are suitable to base a claim to the Service for the PL-566 share of the costs.

#### OPERATION AND MAINTENANCE

The critical area stabilization measures will be maintained by the land-owners, county commissioners, or other groups responsible for the land on which the work is being installed. Based on technical recommendation by the Service, an operation and maintenance agreement will be entered into by the conservation district and the landowner concerned.

Provisions will be made for free access of District, State, and Federal representatives to inspect all critical area stabilization measures at any reasonable time during the period of operation and maintenance responsibilities specified in the conservation plan of operations.

Operation and maintenance inspections for critical area stabilization measures will be made by the Service employee responsible for operation and maintenance inspection and the sponsors on an annual basis for the first 5 years, or after the occurrence of any unusual conditions that might adversely affect these measures.

TABLE 1 - ESTIMATED INSTALLATION COST  
 Guadalupe Creek Watershed, Texas

Installation Cost Item	Unit	Number	Estimated Cost (Dollars) 1/		
			Funds		Other
			NonFederal:	NonFederal:	
			Land	Land	SCS

LAND TREATMENT-GOING PROGRAM

Land Areas 2/	Acres				
Cropland	to be	14,242	-	401,090	401,090
Pastureland	Pro-	11,626	-	198,249	198,249
Rangeland	tected	343	-	4,230	4,230
Technical Assistance	XXX	XXX	-	236,552	236,552
<b>SUBTOTAL</b>				<b>840,121</b>	<b>840,121</b>

LAND TREATMENT-ACCELERATED

Land Areas 2/	Acres				
Cropland	to be	19,490	-	548,909	548,909
Pastureland	Pro-	15,911	-	271,312	271,312
Rangeland	tected	470	-	5,788	5,788

Critical Area Stabilization

	Acres				
	100	184,000		46,000	230,000
Technical Assistance	XXX	XXX	373,720	-	373,720
<b>SUBTOTAL</b>			<b>557,720</b>	<b>372,009</b>	<b>1,429,729</b>
<b>TOTAL LAND TREATMENT</b>	XXX	XXX	<b>557,720</b>	<b>1,712,130</b>	<b>2,269,350</b>

STRUCTURAL MEASURES

Floodwater Retarding Structures	No.	27	1,947,700	770,800	3,718,500
Grade Stabilization Structures	No.	32	1,253,560	23,790	1,277,350
Channel Work N 3/	Mi.	10.1	4,053,100	271,690	4,324,790

<b>SUBTOTAL Structural Cost</b>			<b>3,254,360</b>	<b>1,066,280</b>	<b>9,320,640</b>
---------------------------------	--	--	------------------	------------------	------------------

PROJECT ADMINISTRATION

Construction Inspection			576,100	3,320	579,420
Other			663,600	12,780	676,380
Relocation Assistance			-	500	500
Advisory Services					
<b>SUBTOTAL -Administration</b>			<b>1,239,700</b>	<b>16,600</b>	<b>1,256,300</b>
for Nonstructural and Structural Measures					

<b>TOTAL PROJECTS COSTS 4/</b>			<b>10,051,730</b>	<b>2,954,889</b>	<b>12,006,619</b>
<b>TOTAL ALL COSTS</b>			<b>10,051,730</b>	<b>2,795,010</b>	<b>12,846,790</b>

- 1/ Price base: 1978 for Critical Area Stabilization, FRS 5A, 13, GSS 5-5, 5-6, 5-7, 5-8, 5-9, 6-1, 6-2, 7-1, 9-1, 9-2, 9-3, 9-4, 9-5, 9-6, 9-7, 9-8, 10-3, 10-4, 10-5, 101, 102, 105 and Channel work. Actual cost for all other measures.
- 2/ Includes only areas estimated to be adequately protected during the project installation period. Treatment will be applied throughout the watershed, and dollar amounts apply to total land areas, not just to adequately protected areas.
- 3/ Type of channel before project: (N)-an unmodified, well defined natural channel or stream.

4/ Excludes going program - Land Treatment