

Presidio County Underground Water
Conservation District
P.O. Box 86
Marfa, Texas 79843

T W D B
RECEIVED

JUN 18 2001

ROUTE TO: JA 6/25

CC TO: CP, TK, BM, JA

June 12, 2001

Texas Water Development Board
P.O. Box 13231
Austin, TX. 78711-3231

Subject: Management Plan for Certification

Dear Sir:

Please find attached our Management Plan for consideration of Certification. This plan has been subject to a considerable amount of review over the past several months and should be in excellent condition for approval.

We appreciate your help in the past and we are in hopes that our plan meets with you approval. Should there be any questions please feel free to contact me at 915-358-4611.

Sincerely,



Kerr Mitchell - President
Presidio County U.W.C.D.

PRESIDIO
COUNTY
UNDERGROUND WATER
CONSERVATION
DISTRICT

MANAGEMENT PLAN
2000

Revision 3

FILED FOR RECORD at 10:30AM.

JUN 05 2001

Brenda M. Silva
COUNTY CLERK PRESIDIO CO.

DISTRICT MISSION

The Presidio County Underground Conservation District will strive to develop, promote, and implement water conservation and management strategies to conserve, preserve and protect all water resources for the benefit of the economy, citizens and the environment of the District.

9

TIME PERIOD FOR THIS PLAN

This plan becomes effective upon adoption by the District Board of Directors and remains in effect until a revised plan is adopted. Revisions of this plan will be made each 10 years.

STATEMENT OF GUIDING PRINCIPLES

Ground water is a vital and important resource to Presidio County. The District recognizes this valuable resource and acknowledges that it must be protected and preserved by management in a cost effective and prudent manner through regulations, education and cooperation with other Districts within the region. The greatest threat to accomplishment of our stated mission is inappropriate management resulting from a lack of understanding of our area and local conditions. There is, at the present time, insufficient hydrological knowledge of the aquifers within the District boundaries. Therefore we must proceed prudently in regulation and develop planning measures to help quantify these resources. This management plan will serve as a tool in achieving the Districts goals and a planning guide for District actions.

Description of the District

This District was legislatively created and confirmed by the citizens of Presidio County through an election on August 31, 1999. The current Board of Directors is: Kerr Mitchell, Jr. - President, J. E. White III - Secretary, Board members - B.J. Bishop, Frank Armendariz and Ritchie R. Reynolds. The Presidio County Underground Water Conservation District (PCUWCD) consists of the entire County of Presidio. The economy is predominately that of Agriculture. In the south portion of the county farming is the major income. Crops in the southern portion are mainly truck farming such as onions and other vegetables. The northern portion's income consists mostly cattle ranching, some farming, art and tourism.

Location and Extent

Presidio County is an area of 3,855 square miles, located in the Trans-Pecos region West Texas. The county is bound on the east by Brewster County, on the south by the Rio Grande River, and on the west and north by Jeff Davis County. Marfa is the county seat, which is located in the north portion of the county. Other towns in the county include Presidio and Redford in the south. Candalaria and Ruidoso are in the southwest. All the other towns except Marfa are located near the Rio Grande River.

Topography

The topography of Presidio County is from high plains and plateaus in the north central portion of the county to rugged mountains in the south and southwest. The highest mountain is Chinati Peak, which is 7,730 feet. The farming areas lie in the southern portion of the county, near Presidio and to some extent near Candalaria and Ruidoso in the southwest. The area around Presidio is thought to be the oldest continuously cultivated farmland in Texas. The north central portion of the county or the high plains is the area consisting primarily of ranch land.

Groundwater Resources of Presidio County

In the Presidio County Underground Water Conservation District the known groundwater resources are within the Presidio-Redford Bolson aquifer, the Ryan Flat West Texas Bolson aquifers and the Igneous aquifer. The principal water-bearing units in the Marfa area are the Petan basalt and the Tascotal formations of the Igneous aquifer. The Ryan Flat aquifer occurs in the northwestern part of the county and the Presidio-Redford Bolson in the southern portion along the Rio Grande. The West Texas Bolsons are fault-bounded basins filled with sediments eroded from the surrounding highlands. The Presidio-Redford Bolson is bounded along the northeast by the Chinati Mountains and along the southeast by the Cienega Mountains, the Black Hills and the Bofecillos Mountains. The southwest boundary of the Bolson in the District is the Rio Grande. This aquifer is the source of municipal supply for Presidio. Water quality above the Rio Grande floodplain is fresh. The drainage area of the aquifer in the District is 1,100 square miles, and the recharge area includes 480 square miles outside the drainage area. Recharge has been estimated at 3,630 acre-feet per year. Ryan Flat is the southernmost extension of the Salt Basin in Texas. It is bounded by mountains along its western, southern and eastern margins, and is thought to be hydrogeologically connected with Lobo Valley outside the District. The water quality is all fresh, with TDS typically in the range of 200-400mg/l. The storage area within Presidio County is estimated at about 360 square miles. Recharge has been estimated at 3,810 acre-feet per year in Presidio County. The Igneous aquifer consists of many layers of highly fractured and faulted igneous rocks. The known extent of the aquifer in Presidio County is about 400 square miles. Annual recharge with the District is estimated to be about 8,500 acre-feet. Until there has been more study of and more accurate information in regard to the hydrogeology of the region's aquifers, the District declines to adopt within this Management Plan the published data concerning useable water within the District aquifers. Data on groundwater resources was obtained from a January 1, 2000 review draft of Chapter 3, "Evaluation of Current Supplies," of the Far West Texas Regional Water Plan.

Surface Water Supplies

There are 26,023 acre-feet per year of permitted surface water rights in the Rio Grande and its tributaries in Presidio County. This is the source of supply for irrigated farming along the southern border of the District.

Groundwater Use in Presidio County

The following are annual groundwater usage figures for Presidio County obtained from the Texas Water Development Board for the years 1994 through 1997 for the West Texas Bolson, Igneous and other aquifers. Data from "Water For Texas 1997."

1994	3,914 Acre Feet
1995	4,124 Acre Feet
1996	3,926 Acre Feet
1997	4,976 Acre Feet

Projected Demands for Water in Presidio County

PROJECTED SUPPLIES	ACRE FEET PER YEAR
1. West Texas Bolsons	7,000*
2. Ryan Flat	4,000*
3. Igneous	3,852*
Total Projected Supply (Item 1, 2 & 3)	14,852
Total Projected Demand	15,600*
Balance/(Shortage)	(748)

*Data obtained from TWDB "Water for Texas 1997" Project Date Year 2050

Total Recoverable Storage: West Texas Bolson and Igneous combined 2,185,450 Acre Feet.**
Data from "Water For Texas" Aug. 1997 TWDB

This management plan is based upon the estimates received from the Texas Water Development Board. (TWDB Table: 022SUP8C. Printed 12/03/97). The TWDB has projected that the total water demands for Presidio County will be 15,600 acre feet in 1997. Categories included in these calculations are the municipal use of the Cities of Marfa and Presidio, County Other, Mining, Irrigation and Livestock. These estimates also included projected population increases. The municipal county total for the year 2050 is estimated to be 3,089 acre feet. These estimates do not take into account existing proposals for water supplies to be transported out of the District over the fifty-year planning period for which infrastructure does not yet exist.

This information indicates a shortage by 2050; therefore management and conservation practices that will protect this groundwater for the future, must be evaluated and implemented.

Groundwater Management Issues

This District will manage the supply of groundwater within the District in order to conserve the resource while seeking to maintain the economic viability of all the public and private resource user groups. This District has rules to regulate groundwater withdrawals by means of production and spacing limits of one well per 1/4 section. The projected demand within the District of 28,967 acre feet (2,673 municipal, 25,367 irrigation, 498 livestock, 13 mining and 416 other) in the year 2050 does not substantially exceed existing water supplies and infrastructure. The District's primary concern is the most significant demand and supply issue as proposed by the Public Service Board of El Paso to transport large supplies of water from its ranch near Valentine to the City of El Paso. The District will, in managing the resource, follow the guidelines as set forth in Section 36.122(d)-(5) and other provisions of Chapter 36 of the Texas Water Code.

The relevant factors to be considered in making the determination to deny a permit or limit groundwater withdrawals will include the following:

1. The economic hardship resulting from grant or denial of a permit as well as the terms prescribed by the permit.
2. The purpose of the Rules of the District.
3. Equitable distribution of these resources.
4. Impact of depletion of reserves, which might have harmful effects of these reserves.

Pursuant to the District's mission of protecting the resource, the District may require reduction of groundwater withdrawals to amounts, which will not cause harm to the aquifers. To achieve this purpose, the District may, at the Boards discretion amend or revoke any permit after notice and hearing. The determination to seek the amendment or revocation of a permit by the District will be based on aquifer conditions as observed by the District. This District will enforce the terms and conditions of permits as well as the rules of the District by enjoining the permit holder in a court of competent jurisdiction as provided for in TWC 36.101 and 36.102. Another TWC Rule which may apply is TWC 36.205 which states that District has the authority to assess user fees for water used by municipal and irrigation purposes outside the District's boundaries.

Implementation of the Management Plan

All activities of the District will be undertaken in cooperation and coordinated with other underground water conservation districts.

The District will implement the provisions of this plan and will utilize the provision of this plan as a guide for determining the direction or priority for all District activities. The operations of the District will be consistent with the provisions of this plan when entering into agreements and any additional planning efforts in which the District may participate.

The District shall treat all citizens with equality. Citizens may apply to the District for discretion in enforcement of the rules on the grounds of adverse economic effects or unique local conditions. In granting of discretion to any rule, the Board shall consider the potential for adverse effects on the adjacent landowners. The exercising of this discretion by the Board shall not be construed as limiting the power of the Board.

Management Goals

1. Implement and enforce a system of rules to meet the goals of regulating the production of Groundwater within the District to ensure that the citizens of the District have adequate Water for the future.

35 #
36

Objectives

- a. Establish method of water well permitting, registration and record keeping.
Performance: Well permitting, registration and record keeping by December 31, 2002
- b. Prepare an annual report on the number of wells drilled within the District.
Performance: Each calendar year the District will prepare an annual report on all new wells drilled.
- c. Water well drillers shall provide drilling logs for each new well drilled in the district within thirty (30) days after completion.
Performance: Drilling logs and well information will be required for each new well.
- d. Annually, well service personnel shall provide updated static levels to the District on all wells serviced in Presidio County.
Performance: Updated static levels will be required by for all wells serviced within the District annually.

2. Implement management strategies that will protect and enhance the quality of useable quality water by controlling and preventing waste.

18 #
20
21

Objectives

- a. Dispense educational materials within the cities of Presidio County regarding water Conservation.
Performance: Annually dispense educational material to various entities such as the Marfa Independent School District and Presidio Independent School District. There are only two school districts within Presidio County.

38 #
39

3. Implement a system to improve the basic understanding of groundwater conditions in the District.

- a. Annually add at least one new monitor well as well as a well to test for water quality
Performance: Annually obtain permission from landowner to static test wells as well as test a well for quality.

4. Implement management strategies that will provide for the most efficient use of groundwater.

14
16
17

- a. Review and revise all current existing rules and regulations as required to address the needs of the District.

Performance: All existing rules shall be review annually and revise to address and District needs.

Additional Management Goals

41 ✖
42 ✖
44 ✖
45 ✖
47 ✖
48 ✖

- 1. Annual Public meeting to advise citizens of the status of the District.

Objective: Provide citizen update on the District and its status.

Performance: Annual city meeting in Cities of Presidio and Marfa.

- 2. Annual static level measurements of at least 5 wells within the District.

Objective: Obtain data on water levels within Presidio County.

Performance: Compile data on 5 strategic wells within Presidio County.

- 3. Cooperation and coordination with one other water districts within the area.

Objective: Attend one meeting annually of other water districts within our area.

Performance: Provide data and share important information with surrounding water districts such as Jeff Davis County UWCD or Culberson County UWCD .

Management Goals Determined Not Applicable

Controlling and Preventing Subsidence.

Natural Resource Issues Effected by use of Groundwater.

Conjunctive Surface Water Management Issues

Achieving Goals

15 ✖
19 ✖
34 ✖
37 ✖
40 ✖
43 ✖
46 ✖

Indicators or measurements each linked to a management objective used to evaluate effectiveness and efficiency of District activities by qualifying the results of actions and impact of the results of activities. Measurement shall be in terms of time spent plus expenses incurred by the District and Annual report to the Board of Directors.

Other Issues:

There are no feasible methods for Presidio County Underground WCD to implement recharge methods either Natural or Artificial. (36.1071E3C)

4 ✖

SUMMARY OF DEFINITIONS

“Board” - the Board of Directors of the Presidio County Underground Water Conservation District.

“District” - the Presidio County Underground Water Conservation District.

“TWDB” - Texas Water Development Board

“TWC” - Texas Water Code

“Waste” - As defined in Chapter 36 of the Texas Water Code.

1. Withdrawal of groundwater from a groundwater reservoir at a rate and in an amount that causes or threatens to cause intrusion into the reservoir of water unsuitable for agriculture, gardening, domestic or stock raising purposes.
2. The flowing or producing of wells from a groundwater reservoir if the water produced is not used for a beneficial purpose.
3. Escape of groundwater or from a groundwater reservoir to any other reservoir or geological strata that does not contain groundwater.
4. Pollution or harmful alteration of groundwater in a groundwater reservoir by salt water or by other deleterious matter admitted from another stratum or from the surface of the ground.
5. Willfully or negligently causing, suffering or allowing groundwater to escape into a river, creek, natural watercourse, depression, lake, reservoir, drain, sewer, street, highway, road, or road ditch, or onto any land other than that of the owner of the well unless such discharge is authorized by permit or rule issued by the commission under Chapter 26 of the Texas Water Code.
6. Groundwater pumped for irrigation that escapes as irrigation tailwater onto land other than that of the owner of the well unless permission has been granted by the occupant of the land receiving the discharge.
7. For water produced from an artesian well "waste" has the meaning assigned by Section 11.205 of the Texas Water Code.

Presidio County Underground Water
Conservation District
P.O. Box 86
Marfa, Texas 79843

June 12, 2001

The International Boundary & Water Commission
The Commons - Building C - Suite C
4171 N. Mesa Street
El Paso, TX. 79902

Attention: Watermaster

Dear Sir or Madam,

Please find enclosed our Management Plan Revision No. 3 for Presidio County Underground Conservation District. The initial plan was considered by a Public Hearing in Marfa, TX. on August 28, 2000. Due to various suggestions the plan has been revised and has been Readopted as Revision Number 3. All revisions were minor. Changes were grammatical and mathematical. These changes have now been incorporated in this new revision.

Please review this Management Plan at your convience. Should you determine that changes should be made please notify via mail. If you have any questions that I might answer please contact me at 915-358-4611.

Thank you.

Sincerely,



Kerr Mitchell
President
Presidio County Water Conservation District

12

Presidio County Underground Water
Conservation District
P.O. Box 86
Marfa, Texas 79843

June 12, 2001

T.N.R.C.C
Water Utilities Division - MC - 152
P.O. Box 13087
Austin, TX. 78711-3087

Attention: Watermaster

Dear Sir or Madam,

Please find enclosed our Management Plan Revision No. 3 for Presidio County Underground Conservation District. The initial plan was considered by a Public Hearing in Marfa, TX. on August 28, 2000. Due to various suggestions the plan has been revised and has been Readopted as Revision Number 3. All revisions were minor. Changes were grammatical and mathematical. These changes have now been incorporated in this new revision.

Please review this Management Plan at your convience. Should you determine that changes should be made please notify via mail. If you have any questions that I might answer please contact me at 915-358-4611.

Thank you.

Sincerely,



Kerr Mitchell
President
Presidio County Water Conservation District

Section 15, Block 12, T.C. Ry. Co. Survey, Abstract 6145, Presidio County, Texas being that property more particularly described by metes and bounds in Volume 50, Page 94 of the Deed Records, Presidio County, Texas

809-A

MARFA INDEPENDENT SCHOOL DISTRICT AND THE COUNTY OF PRESIDIO, TEXAS vs. W. R. MCCLEISH KA WILLIAM R. MCLEISH AND MARY V. MCCLEISH
South half of the Southeast quarter of the southeast quarter and the South half of the Northeast Quarter of the Southeast quarter (S2 SE4 SE4 & S2 NW4 SE4) of Section 815, Block -5, Abstract 3629, C.S.D.R.G.N.G. Ry. Co., Presidio County, Texas being that property more particularly described in Volume 151, Page 302 of the Deed Records, Presidio County, Texas
South half of the Northeast quarter of the Southeast Quarter (S2 NE4 SE4) of Section 75, Block 12, Abstract 8523, G.H. & A. Ry., Presidio County, Texas, containing 20 acres, more or less including that property more particularly described in Volume 151, Page 302 of the Deed Records, Presidio County, Texas
Upon the written request of said defendants or their attorney, sufficient portion thereof to satisfy said judgment for delinquent property taxes and accrued penalties and interest and costs of suit and sale; subject, however, to the right of redemption, the defendants or any person having an interest therein, to redeem the said property, or their interest therein, within the period of time provided in the manner provided by law, and subject to any other and other rights to which the defendants or anyone interested therein may be entitled, under the provisions of law. Said sale to be made by me to satisfy the judgment for delinquent property taxes and accrued penalties and interest rendered in the above titled and numbered cause, together with interest thereon and

**PUBLIC NOTICE
Advertisement and
Invitation for Bids**

The City of Marfa will receive bids for Sewer System Improvements until 5 p.m. on Thursday, August 31, 2000, at City Hall, City of Marfa, Texas. The bids will be publicly opened and read at that time.

Bids are invited for several items and work but not limited to the following:

- 1) 6" SDR35 & SDR26 PVC, pipe, fittings & appurtenances
- 2) 8" SDR35 & SDR26 PVC pipe
- 3) 4" SDR 35 PVC pipe, fittings & appurtenances
- 4) 6-48 inch standard concrete manholes
- 5) 15-24 inch manhole frames and covers

Bid/contract documents, including drawings and technical specifications are on file at Landgraf, Crutcher & Associates Inc., 521 Texas Avenue, Odessa, Texas, and may be obtained after Monday, August 21, 2000.

Copies of the bid/contract documents including specifications may be obtained from Landgraf, Crutcher & Associates Inc., 521 North Texas Ave., Odessa, Texas 79761, telephone 915-332-5058, for a non-refundable cost of \$50 per set. Plan holders must provide the name of the individual to contact, company physical address, telephone and fax number when obtaining plans.

A bid bond for 5% of the bid issued by an acceptable surety shall be submitted with each bid. A certified check or bank draft payable to City of Marfa or negotiable U.S. Government Bonds (as par value) may be submitted in lieu of the Bid Bond.

Attention is called to the fact that not less than the federally determined prevailing (Davis-Bacon and Related Acts) wage rate, as issued by the Texas Department of Housing and Community Affairs and contained in the contract documents, must be paid on this project. In addition, the successful bidder must ensure that employees and applicants for em-

ployment are not discriminated against because of race, color, sex, age or national origin.

City of Marfa reserves the right to reject any or all bids or to waive any informalities in the bidding.

Bids may be held by City of Marfa for a period not to exceed 30 days from the date of the bid opening for the purpose of reviewing the bids and investigating the bidders qualifications prior to the contract award.

City of Marfa
C.M. 'Fritz' Kahl, mayor
COM - Aug 17 & 24

**NOTICE OF
PUBLIC HEARING**

The Directors of the Presidio County Underground Water Conservation District will hold a Public Hearing for the purpose of considering public comments on the proposed Groundwater Management Plan for the District on August 28, 2000. The Public Hearing will be held at 6:00 p.m. in the Casner Room at Marfa City Hall, 113 South Highland Avenue, Marfa, Presidio County, Texas. All citizens are invited to attend. A copy of the proposed Groundwater Management Plan is on file for review at the Presidio County Clerk's Office in Marfa and at the public libraries in both Marfa and Presidio.

PCUWD 8-17/24-00

**PUBLIC NOTICE
NOTICE OF PUBLIC
MEETING TO DISCUSS
BUDGET AND
PROPOSED TAX RATE**

The Marfa Independent School District will conduct a public hearing of the proposed 2000-2001 budget and proposed tax rate at 6:00 p.m. on August 28, 2000, in the board room of the administration building, 401 N. Hill/Gonzales Street, Marfa, Texas.

MISD 8-17-00

PCUWCD - 08-28-00

PUBLIC HEARING

~~Bill~~ Bill JENKINS P.O. Box 842 Marfa Tx
MIGUEL SANDOVAL PO BOX 787 MARFA, TX
Jim Blumberg Box 57 RUIDOSA TX.
Teresa Todd Box 1521 MARFA
Mary Belle Dittell - MARFA
Carolize Lyngge P.O. Box 1225, Menard, TX 76859
Dennis R. Reynolds - MARFA
KERR MITCHELL - MARFA
Larkae James - MARFA

<Only Copy>