

SANTA FE COUNTY

1865599

RESOLUTION NO. 2001- 18

A RESOLUTION CONSIDERING SHORT AND LONG-TERM SOLUTIONS TO PROVIDING AN ADDITIONAL WATER SUPPLY FOR THE SANTA FE METRO AREA

WHEREAS, the City and County of Santa Fe have experienced droughts recently in 1996 and in 2000, which necessitated water rationing by the Sangre de Cristo Water Company, and which caused serious concern regarding long-term water availability in the region; and

WHEREAS, the Santa Fe community is an outstanding example of a community that conserves water on a *per capita* basis better than almost any other community of similar size in the Southwest; and

WHEREAS, the City and the County are considering both short-term and long-term solutions to providing additional water supply for the future to safeguard the economy of the greater Santa Fe area and our quality of life; and

WHEREAS, the Board of County Commissioners of Santa Fe County recognizes that it has a responsibility to work productively with the City of Santa Fe to come up with solutions to Santa Fe's current water situation that will achieve equitable conservation approaches and will increase the supply of water available to the community; and

WHEREAS, three citizens' groups: Voices of Santa Fe, The Santa Fe Water Coalition, and TAP Water Santa Fe have formed the Santa Fe Community Water Collaborative, which has produced a plan known as The Santa Fe Conservation and Water Needs Initiative, a copy of which is attached to this Resolution; and

WHEREAS, the Commission finds that The Santa Fe Conservation and Water Needs Initiative offers immediate water conservation and water supply solutions for Santa Fe that are consistent with long range efforts to create a sustainable regional water plan.

NOW, THEREFORE, THE BOARD OF COUNTY COMMISSIONERS OF SANTA FE COUNTY DOES HEREBY RESOLVE:

- 1. To support working with the City of Santa Fe to investigate and study The Santa Fe Conservation and Water Needs Initiative.
- 2. To request that the City of Santa Fe consider implementing The Santa Fe Conservation and Water Needs Initiative, as appropriate.

APPROVED, ADOPTED AND PASSED this 13th day of February, 2001.

BOARD OF COUNTY COMMISSIONERS

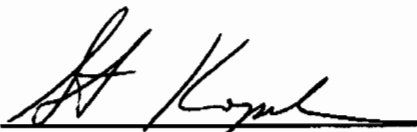

 Paul D. Duran, Chairman



ATTEST:

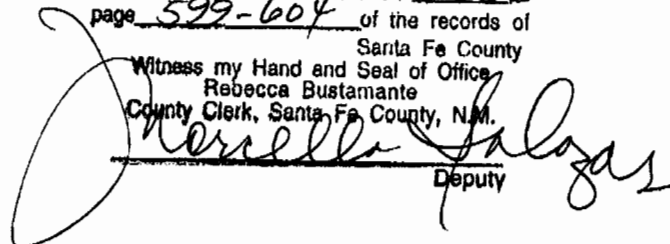

 Rebecca Bustamante, County Clerk

Approved as to Form:


 Steven Kopelman, County Attorney



1146.855
 COUNTY OF SANTA FE } SS
 STATE OF NEW MEXICO }
 I hereby certify that this instrument was filed
 for record on the 28 day of Feb A.D.
 20 01 at 11:05 o'clock a m
 and was duly recorded in book 1865
 page 599-604 of the records of

Santa Fe County
 Witness my Hand and Seal of Office
 Rebecca Bustamante
 County Clerk, Santa Fe County, N.M.

 Deputy

EXECUTIVE SUMMARY – TAP WATER SANTA FE

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Sufficient water supply is available in the Greater Santa Fe Area to meet existing and future needs; however Santa Fe's current water supply system is inadequate to meet demand in a mild drought with proposed solutions 5 to 6 years away.

Short-Term Solution – If started today would provide additional water supply for 2001 and sufficient water supply to about 2015 based on present and projected demand:

1. Trade some City effluent for some Las Campanas capacity in the Buckman System. Quickest way to obtain potable water supply from existing infrastructure.
2. Establish a long-term water right for the City's new Northwest Well. This well, completed in 2000 supplied up to 720 acre feet to the system during 2000 on an emergency basis.
3. Drill/equip additional Buckman Wells at Booster Stations (#2, #3) along the Buckman Line.
4. Divert Rio Grande water at Buckman via an Infiltration Gallery and a Package Water Treatment Plant to provide enough water to fully utilize the capacity of the Buckman Pipeline when combined with the sustained capacity from the existing Buckman Wells.

Long-Term Alternatives – provides sustainable water supply for about 40 years, maybe longer, if started today, assuming modest return flow credits.

1. Rio Grande Diversion – maximize San Juan – Chama and Rio Grande water utilization:
 - a. Develop a Well field/Infiltration Gallery near Pena Blanca with Water Treatment Plant , or
 - b. Develop an Infiltration Gallery at Buckman with Water Treatment Plant and/or (*), or
 - c. Ranney Well System on San Ildefonso Pueblo with Water Treatment Plant and/or (*)
 (*) Raw Water Option—Construct Raw Water Pipeline from the Rio Grande to Nichols Reservoir to fully utilize the capacity of the existing Water Treatment Plant. Introduces water to the Santa Fe River for aquifer recharge and year-round flow.
2. Other Actions and Considerations: See Report

	Add'l Supply	Time Frame	Capital	O&M	Life-Cycle Cost
	Acre-feet/Yr	in Years	Costs	Costs	\$'s per 1000 gal
Short-Term Solutions					
1. Las Campanas	550	0.5-1.5	\$705,000	\$192,000	\$1.42
2. Northwest Well	1125	0.5-2.0	(**) \$2,100,000	\$240,000	\$1.17
3. Supplement Buckman Wells	1030	0.75-2.5	\$3,000,000	\$440,000	\$2.11
4. 4.0 MGD Package WTP	4030	2.0-4.0	\$5,500,000	\$1,900,000	\$1.93
Total	6,735		\$11,305,000	\$2,772,000	
Long-Term Alternatives					
1a. Pena Blanca WTP	10000	4.0-5.0	\$40,000,000	\$5,000,000	\$2.69
1b. Buckman WTP(*)	10000	4.0-5.0	\$45,000,000	\$5,500,000	\$2.98
1c. Ranney Well System/WTP(*)	10000	5.0-6.0	\$38,300,000	\$5,500,000	\$2.79
(*) Raw Water Option (1b or 1c)	2370	2.0-4.0	\$15,700,000	\$2,110,000	\$4.44

Note: (**) Already expended funds.

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**SANTA FE WATER COALITION'S
WATER SHORTAGE RESPONSE PLAN FOR THE CITY OF SANTA FE**
January 1, 2001

After an in-depth review of all current Santa Fe water conservation ordinances, the Santa Fe Water Coalition has developed a strategy for adding to Santa Fe's short and long term water supply by increasing demand efficiencies in the most fair and community-minded ways possible. Our suggestions for meeting the demand side of the water equation specifically address the Mayor's 4 Point Plan, "Ongoing Water Conservation".

- The Santa Fe Water Coalition has hired a highly experienced firm to begin data collection and assessment of conservation opportunities. A feasibility report will be available approximately February 1, 2001. The Santa Fe Water Coalition suggests that the following actionable items be implemented, based on the results of this upcoming conservation feasibility study.
- Santa Fe Water Coalition shares the City staff goal of reducing demand sufficiently by Spring 2000 so that a restrictive "Stage Three" conservation ordinance does not need to be implemented, regardless of snow pack and reservoir levels. Time is of the essence.

SHORT TERM MEASURES

1) Aggressive low-flow toilet and showerhead retrofits

- Identify priority targets in commercial, industrial, and institutional sectors, based on total water savings over the quickest time period.
- Identify priority targets in residential sector based on total water savings available, particularly in multi-residence housing. Develop target implementation programs (out-sourcing available).
- Find funding for program implementation in private and/or public sector (out-sourcing available).

2) Landscape efficiency programs for large public and private users

- Identify priority targets, i.e. largest, most inefficient users in private and public sector.
- Develop program for installing rain shut-off devices and irrigation meters; train personnel to monitor soil moisture level and water only at level required; implement turf grass retrofits for under-utilized turf areas.

3) Landscape efficiency/education programs for residential customers

- Identify water savings potential by basic data collection and assessment of outdoor residential water use (out-sourcing available).
- Develop program for increasing water efficiency in outdoor residential water use, such as soil probe distribution to educate users on efficient irrigation application, ET rate education, irrigation retrofits, turf grass retrofits, and installation of irrigation meters for larger users (out-sourcing available).

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4) Supply infrastructure repairs

- Evaluate total loss of potable water due to infrastructure leaks.
- Find funding possibilities for repairs such as EPA grant and other state and federal funding (out-sourcing available).

5) Water collection and re-use incentives

- Identify legal and policy issues related to implementation of appropriate programs for collection and re-use.
- Institute appropriate incentives and regulations in City codes and ordinances.

6) Replace existing City water conservation ordinances

- Implement simple efficiency measures that remain in effect year-round, including landscape guidelines and run-off collection.
- Remove punitive water ordinance items that encourage water waste in the landscape while creating public rancor.

LONG TERM MEASURES

1) Implement a Consumer Water Budget Program with Incentive Pricing

This proven program provides water customers with individualized budgets that give us the water we need while discouraging all water waste. It also provides for a rate structure that makes the water utility solvent.

(Detailed information on this concept was provided to City staff in a public workshop format; additional detailed information is available from the Santa Fe Water Coalition. Out-sourcing is available for all aspects of study and implementation of this program)

- Create target efficiency budgets for each water customer based on indoor per capita use and outdoor landscape area use.
- Customize outdoor budgets to Santa Fe's climate and appropriate plant choices; customize indoor budgets to reasonable and efficient use of water for all customers.
- Create a water pricing incentive structure that discourages waste and pays for operational costs of the water service company with collection of billings at the essential use/base rate.
- Assess computer hardware and software needs for future implementation of this program so that replacement of current flawed system is able to handle a consumer water budget program.
- Educate staff and public regarding fairness and efficiency savings of this program.
- Plan staged implementation of program customized to Santa Fe's unique water crisis reality and water company financial reality.

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Santa Fe Water Coalition Mission Statement

The Santa Fe Water Coalition is an organization of green industry and related experts who are concerned about the effects of the current City emergency water ordinances on Santa Fe's residents, business community, and environment.

Our goals are to introduce and lobby City Council for adoption of a revised water conservation policy that is truly sustainable and equitable, and to educate our community and elected officials about the role that plants and landscaping play in the quality of our lives and the economic welfare of our city.