



**NORTH AMERICAN DEVELOPMENT BANK
FACT SHEET
DOUGLAS, ARIZONA**

- Project:** Water and Wastewater System Upgrade
- Cost:** US\$8,468,034
- Sponsor:** City of Douglas, Arizona
- Location:** Douglas is located in Cochise County, about 105 miles southeast of Tucson, in the Sulfur Springs Valley of southeastern Arizona. Douglas borders Agua Prieta, Sonora, Mexico, and is adjacent to the U.S. unincorporated communities (*colonias*) of Pirtleville, Fairview, and Bay Acres.
- Background:** The existing Douglas municipal wastewater collection system is generally comprised of vitrified clay pipe originally installed in 1906. Wastewater flows to the Douglas wastewater treatment plant through 163,890 linear feet of pipe. Approximately, 30 percent of the collection system is deficient due to leaks or overloaded lines. In addition, 18,160 linear feet of the collection lines have flow velocities of less than two feet per second, which can lead to sewer overflows caused by an accumulation of solids and clogged pipes.
- Deficiencies also plague the city's water distribution system. Improvements needed include a new pressure zone to serve residents east of Van Buren Avenue and new transmission pipelines to convey water to the Fairview and Pirtleville *colonias*.
- Description:** The purpose of this project is to expand and rehabilitate the existing water distribution and wastewater collection systems.
- Major Water Distribution Improvements:
- Construct approximately 28,785 linear feet of new lines
 - Replace or expand approximately 27,510 linear feet of existing water lines
 - Install a programmable logic controller to replace the 25-year old telemetry system
- Wastewater Collection System Improvements:
- Construct an additional 50,734 linear feet of new sewer lines
 - Rehabilitate or expand 52,126 linear feet of leaking or overloaded wastewater lines
 - Install 450 sewer connections for current *colonia* residents

BECC Certification: June 20, 2001

NADB Funding: Border Environment Infrastructure Fund (BEIF):
Construction Grant Assistance: US\$3,089,551
Transition Grant Assistance: US\$ 625,134
Total: US\$3,714,685

Of the construction grant assistance, \$2,407,318 will be applied towards the costs of water and wastewater system improvements and \$682,233 is earmarked for *colonia* sewer hookups.

Institutional Development Cooperation Program (IDP):
A water and wastewater rate study was performed.

Other Funding Sources: The BECC and the U.S. Corps of Engineers provided design and engineering funds. The U.S. Department of Agriculture Rural Development will provide a grant for the construction of water and sewer lines to the *colonias*. And, the city will contribute cash, as well as issue bonds for the project or obtain a loan from other potential funding sources under the City's consideration.

Benefits: The proposed project will provide first-time wastewater collection and treatment services to residents of the Pirtleville, Bay Acres, and Fairview *colonias*, thus improving their quality of life. Eliminating untreated sewage discharges from faulty septic systems and from broken wastewater collection lines within the city limits, will provide a healthier environment for all residents of Douglas and the surrounding *colonias*. Creating a new pressure zone and rehabilitating the water distribution system will reduce water losses from leaky waterlines and improve the delivery and quality of potable water.

For more information, contact Juan Antonio Flores,
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