



NORTH AMERICAN DEVELOPMENT BANK

PROJECT CLOSEOUT FACT SHEET

Project:	Comprehensive Sewerage Collection and Treatment System Project		
Location:	Ciudad Acuña, Coahuila	Certification Date:	March 24, 2000
Type:	Wastewater	Operation Startup:	September 30, 2008
Population Benefitted:	113,194	Closeout Date:	March 2019

Pre-project Conditions

In 1998, only 49% of the population of Ciudad Acuña had access to wastewater collection services. Population growth in the years prior to the project had outstripped the expansion of wastewater collection and treatment facilities. The rest of the population used latrines or septic tanks (without leach field technology) to dispose of raw sewage. The substandard design of the on-site systems posed a high risk of groundwater contamination. Moreover, the existing sewer system built in the 1960s had negative slopes and the infrastructure was deteriorated, while the ponds in the old treatment facility were clogged and no longer operational. These conditions allowed untreated wastewater to leach into nearby streams.

Project Objective

To rehabilitate and expand the wastewater collection and treatment system to eliminate the risk of surface and groundwater contamination from untreated wastewater discharges.

Project Scope

The project consisted of the construction, rehabilitation and expansion of the primary and secondary sewer mains and conveyance infrastructure, as well as the construction of a new wastewater treatment plant (WWTP) and was divided into three phases. Phase I covered the construction of the WWTP with a capacity to treat up to 250 liters per second (5.7 million gallons a day) through a Build-Operate-Transfer (BOT) concession, as well as the construction or rehabilitation of 240.5 km (149.4 miles) of sewer lines. Phase II included the construction or rehabilitation of 114 km (70.8 miles) of sewer lines. The final phase continued expansion of the collection system by installing 500.4 km (310.9 miles) of pipeline.



Project Results

Outputs	Indicator	Target in 2000 (Certification)	Actual (2010)
Wastewater treatment plant	Liters per second (lps)	625	500
Sewer lines installed or rehabilitated	Kilometers	854.9	354.5

The above table documents the actual outputs of the first two phases of the project. After completion of phase II with BEIF funding, the utility continued to implement phase III in stages.

Outcomes	Indicator	Target in 2000 (Certification)	Actual (2010)
Untreated or inadequately treated wastewater discharges eliminated	Lps	625	377
Increased access to wastewater collection*	Connections	62,791	34,915

Source: 2010 estimate based on number of connections reported in the 2010 census by the Mexican institute of statistics (INEGI).

The above table reflects the actual outcomes of the first two phases of the project.

Significant Contribution of the Project
100% of collected wastewater is now treated in compliance with regulatory requirements.

Project Financing (USD)

Sources of Funding	Estimated at certification	Actual Amount
NADB BEIF construction assistance grant*	\$ 16,726,605	\$ 15,409,264
NADB loan	16,726,605	1,879,235
Other sources**	45,351,578	42,262,039
Total	\$78,804,788	\$ 59,550,538

* Border Environment Infrastructure Fund (BEIF) funded by the U.S. Environmental Protection Agency (EPA) and administered by NADB

** Other sources include the equity provided by the BOT contractor, federal and state grants, and municipal funding.

The cost estimated at certification included all three phases of the planned project, while the actual amounts documented above only take into account the first two phases.