NORTH AMERICAN DEVELOPMENT BANK

PROJECT CLOSEOUT FACT SHEET

Project:	Peña Blanca Wastewater System Improvements at Potrero Creek		
Location:	Nogales, Arizona	Certification Date:	November 8, 2018
Type:	Wastewater	Operation Startup:	October 20, 2020
Population Benefitted:	1,262	Closeout Date:	September 23, 2026

Pre-project Conditions

Peña Blanca is a 50-acre development with a gravity wastewater system that provides service to 75 homes, a middle school, and an elementary school. The Peña Blanca Pump Station, located 0.5 miles northeast of the development, conveys flows from the Peña Blanca sewer system to the International Outfall Interceptor (IOI). The force main from the Peña Blanca Pump Station to the interconnection point at the IOI was originally buried under the creek bed; however, storm events and other weather conditions eroded the wash bed, leaving the pipeline exposed at the Potrero Creek crossing. This situation made the pipeline more vulnerable to failures resulting in wastewater spills. Emergency repairs had been required twice since 2014. These spills posed an environmental and health risk for nearby wells in the community of Rio Rico, which provide drinking water to approximately 19,000 residents and are located downstream of the Peña Blanca force main at Potrero Creek. The Peña Blanca Pump Station was designed to manage the anticipated flows from a subdivision plotted to include 1,000 homes; consequently, the facility and equipment were oversized for actual flows. Additionally, the system did not have telemetry technology, which prevented the utility from effectively managing the equipment in accordance with changes in demand.

Project Objective

Eliminate the human health risks associated with untreated or inadequately treated wastewater discharges to Potrero Creek, thereby contributing to the protection of natural water resources and reducing the risk of waterborne disease, as well as improve the operational efficiency of the wastewater system.

Project Scope

The project consisted of the replacement and relocation of approximately 764 lineal feet of a sanitary sewer force main below Potrero Creek and improvements at the Peña Blanca Pump Station on the northwest side of the city.





Project Results

Outputs	Indicator	Target at Certification	Actual
New wastewater collection lines installed	miles	0.14	0.14
Improved wastewater lift stations	number	1	1

Outcomes	Indicator	Target at Certification	Actual
Population benefitted	number	1,262	1,262
Improved wastewater connections	number	75	75
Risk of potential wastewater discharges eliminated	million of gallons per day	0.084	0.084

Improvements to the pump station have also improved the operational efficiency of the wastewater system and reduced maintenance requirements and operating costs.

Project Financing
(USD)

Sources of Funding	Estimated at certification	Actual Amount
NADBank CAP grant*	$ 450,000	$ 446,400
Other sources**	50,000	263,422
Total	**$ 500,000**	**$ 709,822**

* Community Assistance Program (CAP)
** City of Nogales, Arizona

The original budget was exceeded by the City requesting additional improvements at the lift station, which were covered with funds from the Operation & Maintenance Reserve.