



NORTH AMERICAN DEVELOPMENT BANK

PROJECT CLOSEOUT REPORT

Project:	Wastewater Infrastructure Project		
Location:	Marathon, Texas	Certification Date:	November 9, 2017
Type:	Wastewater	Operation Startup:	July 30, 2020
Population Benefitted:	533	Closeout Date:	April 26, 2023

Pre-project Conditions

Portions of the existing wastewater collection system were constructed nearly 50 years ago from vitrified clay pipes which, due to their age, were disintegrating and undersized for current demand. The wastewater pipelines needed to be repaired regularly and sewage spills cleaned up because of line breaks. In some cases, raw sewage was backing up into homes and businesses, exposing the public to serious health risks. The most acute issues were identified in the main trunk line from the First Street alleyway to the Marathon Wastewater Treatment Plant (WWTP). The project also created an opportunity to provide first-time service to residents in the Fussy Flats area, where residents had on-site systems, many of which were failing.

Project Objective

To eliminate exposure to untreated or inadequately treated wastewater due to chronic line breaks, sewage back-ups and spills, as well as to provide first-time access to the wastewater system in unserved areas, contributing to the reduction of water pollution and the risks of waterborne diseases.

Project Scope

At certification, the project scope consisted of replacing the main trunk line that conveys wastewater to the Marathon WWTP, decommissioning the only lift station and extending wastewater collection infrastructure to provide first-time service to nine homes. More connections were made than anticipated at certification due to some new home construction.



Project Results

Outputs	Indicator	Target (2017)	Actual (2020)
Wastewater collection lines installed	miles	2.4	1.8
Wastewater connections installed	number	9	13
On-site wastewater disposal systems decommissioned	number	9	9

Boring through consolidated rock under Texas Department of Transportation, (TxDOT) and Burlington Northern Santa Fe Railroad (BNSF) rights of way led to significantly higher-than-expected costs for the work and inspection fees. The excessive costs resulted in the need to eliminate nearly 0.35 miles of lateral lines from the project due to funding issues. After project completion, Marathon Water Supply and Sewer Service Corporation (MWSC) used leftover materials to construct lateral lines that were part of the original design. In addition to the new connections, there were also 46 reconnections to the trunk line.

Outcomes	Indicator	Target (2017)	Actual (2020)
Increased access to and use of wastewater collection and treatment services	connections	241	259
Eliminated wastewater discharges from inadequate on-site treatment systems	gallons per day	2,000	2,000

The objective of the project was achieved. Since the project was constructed, there have not been any line breaks or backups in the wastewater collection system. As a result of this project, MWSC was able to install connections to collect wastewater in a previously unserved area, and on-site systems have been removed, eliminating the risk of groundwater contamination from failing septic systems and cesspools.

Project Financing and Implementation (USD)

Sources of Funding	Estimated at Certification	Actual Amount
NADBank BEIF construction assistance grant*	\$ 1,551,500	\$ 2,129,485
Total	\$ 1,551,500	\$ 2,129,485

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