

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

FY2021 Cooperative Funding Initiative Application Form

Project Name Conservation – North Port Water Distribution System Looping
Project Number
Cooperator City of North Port
Department Public Utilities
Contact Person Nicole Brown
Address 6644 W. Price Blvd.
City State Zip North Port, FL 342914106
Phone # 941-240-8025
Email nbrown@cityofnorthport.com

Project Type:

Water Supply Water Quality Flood Protection Natural Systems

Strategic Initiatives:

Water Quality Maintenance and Improvement Water Quality Monitoring
 Alternative Water Supply Conservation
 Reclaimed Water Regional Water Supply Planning
 Emergency Flood Response Floodplain Management
 Minimum Flows and Level Establishment and Monitoring Minimum Flows and Levels Recovery
 Natural Systems Conservation and Restoration Natural Systems Identification and Monitoring

Indicate All Counties to Benefit From Project:

Charlotte Citrus Desoto Hardee Hernando Highlands Hillsborough Lake
 Levy Manatee Marion Pasco Pinellas Sarasota Sumter Polk

Project Description/Benefit/Cost

Description:

The City of North Port water supply system contains areas with multiple dead ends, which coupled with seasonal use, requires frequent flushing in order to maintain the required disinfectant residual for water quality in the system. In an effort to promote conservation and reduce flushing, the City has incorporated language in the North Port Utilities water distribution systems standards and specifications, making the looping of water mains mandatory for all commercial, industrial, and residential areas in new development. In addition, the City has identified areas in the potable distribution containing dead end lines for looping project to eliminate dead ends and reduce system flushing in three areas. The first area, in the northwest area of the city, begins at S. Hartsdale Street, runs from S. Hartsdale Street to Irondale Road up to Leopold Avenue connecting Florala Street and finally connecting to Atmore Avenue. This area would be looped together as one area. This project will install 3,000 feet of 6" pipe with associated apparatuses to extend the existing S. Hartsdale Street water line that connects to the existing line on Atmore Avenue. The second area, in the central area of the city, begins at Aldovin Avenue. This project will install 1,550 feet of 6" pipe to connect the existing line running from the end of Aldovin Avenue down Cunliffe Road to Wacoma Avenue and finally end on Abbotsford Street. The third and final area, also in the northwest area of the city, begins at Totem Avenue. This project will install 6" pipe that will run from the existing line at Totem Avenue and connect to Price Blvd. This area will also fill in a small piece of 6" pipe to connect the two dead ends on Perennial Road.

Benefit:

The proposed S. Hartsdale Street area will eliminate 2 dead ends, conserving an estimated 4,464,000 gallons of water per year and the need for an existing auto flusher. The proposed Aldovin Avenue area will eliminate 2 dead ends, conserving an estimated 1,500,000 gallons of water per year and the need for an existing auto-flusher. The proposed Totem Avenue area will eliminate 3 dead ends, conserving an estimated 1,200,000 gallons of water per year.

Cost:

The cost benefit for all the above projects is at a medium cost effectiveness level with an anticipated project cost of \$415,000.

Describe your complementary efforts in developing, implementing and enforcing water conservation, water quality and flood protection ordinances.

The City of North Port has one of the lowest per-capita water use rates in the region. This can be attributed to an extensive conservation program which includes a tiered rate structure, reuse water program, irrigation enforcement, floodplain management both locally and regionally; and, a comprehensive public education and outreach program that promotes water conservation, protection of City and regional resources, and encourages public participation in flood control efforts. The City's outreach program is a year-round effort to involve, inform and inspire all ages to conserve and protect water in their daily activities. The program offers education for all ages through participation at school and community events locally and regionally as well as hosting its own workshops, contests – including a “rain barrel” contest, and annual environmental fair. These efforts are complimented by print and web-based literature including the City's award-winning web site and its annual Consumer Confidence Report, which provide practical, useful information on water conservation and protection. The City's public education and outreach efforts earned the City the internationally recognized 2014 “WateReuse Public Education Program of the Year” award from the WateReuse organization out of Alexandria, Virginia. The City continues acquisition of land as a protective conservation buffer for the Class I waters of the Myakkahatchee Creek, a potable water and recreational resource. This initiative also helps reduce damage from flooding events. The City's water conservation efforts and other sustainable development activities earned North Port the Florida Green Building Coalition's "Silver" level local government certification in 2016. In accordance with the City's 2008 Reuse Master Plan, the City continues planned expansion of the system to offset potable water use. In addition, the City's Unified Land Development Code (ULDC) includes the following requirement for new developments: “A reuse water system shall be provided in all new subdivisions, and connection shall be required with the City's reuse water system where the City system is within 1/4 mile from a point on the perimeter of the subdivision closest to the source of service and measured along an accessible right-of-way or easement. The order of supply sources of water for irrigation purposes shall be reuse water, storm water then well water.” Owing to the City's extensive efforts in stormwater system management, maintenance, information dissemination and outreach efforts, the May 2011 Community Rating System (CRS) audit resulted in North Port receiving an improved CRS rating from 7 to 6. The City is an active participant in the Federal Emergency Agency (FEMA) and SWFWMD's Flood Insurance Rate Map (FIRM) revision activity. The City has adopted new FIRMs which are effective November 4,2016. The City requires that all applicable Federal and State permits be approved prior to the start of construction.

Check here if requesting a reduction in matching funds requirement pursuant to s.288.06561, F.S.

Timelines

Construction

Milestone

Projected Date

Bid Construction

10/30/2020

Select Contractor

11/30/2020

Begin Construction

01/01/2021

Complete Construction

09/30/2021

Data Collection Assessment:

Mapping/GIS data