

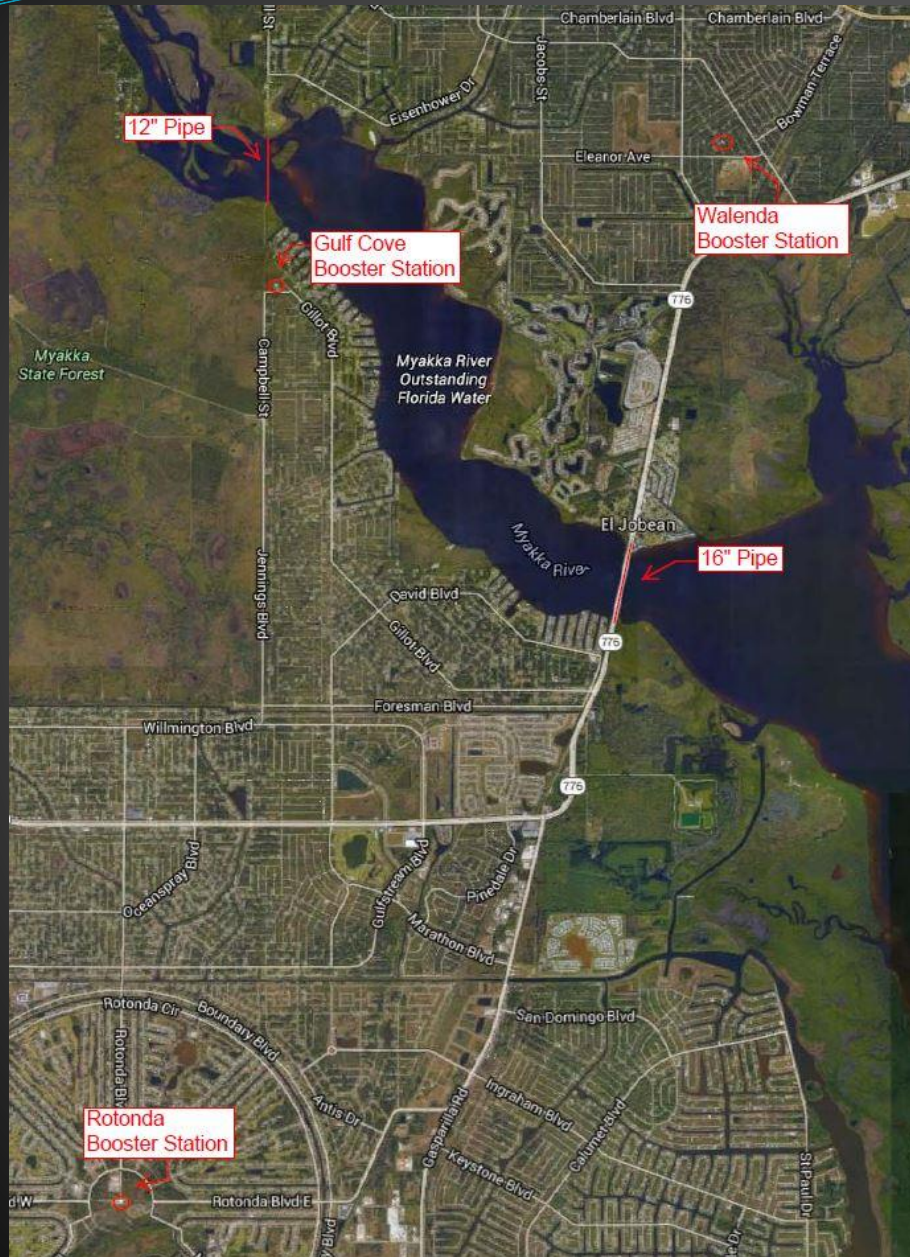
# Charlotte County Utilities

North Myakka River 24" Water Main Crossing  
WO#31 Issued on 7/28/2015



# Purpose of this project

- Existing 12" water main crossing is approaching the end of its design life and is not sufficient in size.
- Replace and upsize the 12" asbestos concrete water main from the river to the Gulf Cove Booster Station to increase capacity, reliability and provide system redundancy.
- The current transmission line from the Myakka River to the Gulf Cove Booster Station is on private property and needs to have a permanent easement.



## Current System

- 12" water main crossing the Myakka River at the Charlotte County Line.
- 16" water main crossing at the El Jobean Bridge.
- There are no other sources of supply to West County.
- The current potable water demand in the area is approximately 4 MGD.

# Route Evaluation Criteria

- a. Methods of Construction
- b. Permitting
- c. Environmental Impact
- d. Location
- e. Long Term Maintenance
- f. Cost



# Methods of Construction

- Open Trenching
- Directional Drill
- Other Considerations
  - Impact on Existing Pipeline
  - Easements

# Permitting

- FDEP
- Environmental Resource Permit
- Army Corps of Engineers

## Environmental Impact

- Wetlands
- Endangered Species
- Upland
- Aquatic

# Estimated Cost New 24" Water Main Crossing

Method	Northern & Southern	
	Uplands	River Crossing
PVC Trench	\$502,788	\$2,380,550
HDPE Trench	\$621,788	\$2,623,550
DIP Trench	\$808,788	\$3,403,850
HDPE Directional Drill	\$855,745	\$1,620,000

**Estimated project costs for recommended method \$2,122,800**

# Questions

