

MEMORANDUM

TO: Governing Board Members

FROM: Deena Reppen, Chief of Staff

DATE: September 8, 2011

SUBJECT: City of Naples –Aquifer Storage and Recovery (ASR) Program FY12
Intake Structure and Transmission Main
Contract No.4600002211

Background: The potable water supply sources of the City of Naples (City) are the Lower Tamiami Aquifer and the surficial aquifer system along Goodlette Frank Road. Since the demand on these groundwater sources continues to increase, the City decided in 2006 to evaluate potential Aquifer Storage and Recovery (ASR) zones and the feasibility of storing surface water from the Golden Gate Canal in a suitable aquifer system.

This project is part of the implementation of the City's 5-Year Alternative Water Supply Plan that includes construction of four ASR wells to store treated reclaimed water and surface water from the Golden Gate Canal and the construction of an intake structure with a transmission pipeline. The project will improve the water quality in Naples Bay and the Gordon River by reducing discharges of freshwater from the Golden Gate Canal. In addition, it will provide supplemental irrigation water to the City's reclaimed water system from the ASR storage zone during times of high demand and low reclaimed water supply, reducing the consumption of potable water from the Lower Tamiami Aquifer by at least 25%. Two ASR wells were constructed in FY10 and the intake structure and pipeline is currently under construction and expected to be completed in FY12.

The total cost of the project is \$5.5M. The District has budgeted \$980,000 in dedicated ad valorem Big Cypress Basin funds in FY12.

How this helps meet the District's 10-year Strategic Plan: The project will enhance alternative water supply development for the City of Naples.

Funding Source: The total project cost is \$5.5M, of which the District's contribution is not to exceed \$980,000, for which dedicated ad valorem funds (Big Cypress Basin) are budgeted for FY12.

This Board item impacts what areas of the District, both resource areas and geography: The project benefits Naples Bay and the Gordon River as well as the Lower Tamiami Aquifer in the East Golden Gate Estates area.

What concerns could this Board item raise? Applicant's ability to complete this contract within the fiscal year. Individual projects were identified, scoped and budgeted to fit within the fiscal year. The Big Cypress Basin staff is confident that these projects will be completed within FY12.

Why should the Governing Board approve this item? Approval of this contract will help achieve the goals of the Lower West Coast Water Supply Plan and assist in development of alternative water supply sources, while fostering a partnership with the City of Naples. The item was reviewed and recommended for approval by the Big Cypress Basin Board on August 19, 2011.

If you have any questions, please do not hesitate to contact me at ext. 6232