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**SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
AMENDMENT**

**4600002211-A01**

**SAP PO REFERENCE NO. \_\_\_\_\_**

**AMENDMENT NO. #01**

**TO AGREEMENT NO. 4600002211**

**BETWEEN THE**

**SOUTH FLORIDA WATER MANAGEMENT DISTRICT**

**AND**

**CITY OF NAPLES**

This **AMENDMENT NO. 01**, is entered into on \_\_\_\_\_, to that **AGREEMENT** dated November 3, 2010, between "the Parties," the South Florida Water Management District (**DISTRICT**), and City of Naples (**CITY**).

**WITNESSETH THAT:**

WHEREAS, the **AGREEMENT** may be amended with the prior written approval of the Parties; and

WHEREAS, the Governing Board of the **DISTRICT**, at its September 8, 2011 meeting, approved entering into this **AMENDMENT NO. 01** with the **CITY**; and

WHEREAS, the Parties wish to amend the **AGREEMENT** in order to (i) extend the period of performance; (ii) revise the Statement of Work; (iii) increase the funding; and (iv) revise the Payment and Deliverable Schedule of the **AGREEMENT**;

NOW THEREFORE, the **DISTRICT** and the **CITY**, in consideration of the mutual benefits flowing from each to the other, do hereby agree as follows:

1. The term of the **AGREEMENT** is hereby extended by one (1) year and the expiration date, as amended, is November 2, 2012. Regardless of the actual date of execution, this **AMENDMENT NO. 01** shall be effective as of November 3, 2011.

2. The monetary consideration for the **AGREEMENT** is hereby increased by an amount not-to-exceed Nine Hundred Eighty Thousand Dollars and No Cents (\$980,000.00), for a total revised **AGREEMENT** amount not-to-exceed Two Million Three Hundred Eighty Thousand Dollars and No Cents (\$2,380,000.00).



# **SOUTH FLORIDA WATER MANAGEMENT DISTRICT AMENDMENT**

3. The Statement of Work, Exhibit "A" is hereby revised with the addition of Exhibit "A1", attached hereto and made a part of this **AMENDMENT NO. 01**.
4. The Payment and Deliverable Schedule is also hereby revised with the addition of Exhibit "B1", attached hereto and made a part of this **AMENDMENT NO. 01**.
5. All other terms and conditions of the **AGREEMENT** remain unchanged.



## **EXHIBIT "A1"**

### **Statement of Work City of Naples Alternative Water Supply**

#### **A. Introduction**

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. The demands on these groundwater supplies continue to increase, particularly in Golden Gate Estates, as development increases within the city's utility service area.

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 is currently under construction and the transmission pipeline is expected to be completed in FY12.

The City undertook an analysis of the 20-year projected water demand and available alternative water supplies with a desire to achieve the following goals:

1. Insure a long-term water supply for customers within the City's utility service area.
2. Reduce consumption of potable water from the surficial and Lower Tamiami Aquifer by at least 25%.
3. Eliminate permitted discharge of treated effluent water into the Naples Bay (Naples Bay Initiative to improve water quality);
4. Reduce the discharge of fresh water into the Naples Bay;
5. Distribute 100% of reclaimed water through the irrigation distribution system.

Following extensive analysis of alternative water supplies, the Naples City Council approved the Integrated Water Resources Plan (IWRP) in October, 2008. The IWRP provides a twenty year plan to address the above stated goals. The selected alternative allows an increase in the water supply without additional wells in the surficial and Lower Tamiami Aquifer. New brackish wells from the Lower Hawthorne Aquifer may be required in the very long term, although the selected strategy is to avoid construction of additional wells and treatment facilities.

The first five-year component of the IWRP is to:

1. Apply and acquire a permit from the South Florida Water Management District to withdraw 10 mgd of surface water from the Golden Gate Canal.
2. Develop exploratory Aquifer Storage and Recovery (ASR), evaluate storage capability below the Underground Supply of Drinking Water, cycle test, place in service, and drill three additional ASR wells.
3. Construct an intake structure at the Golden Gate Canal and a transmission line to the City's 48-acre property on Riverside Circle.
4. Mix the surface water from the Golden Gate Canal with treated effluent water and distribute through the existing and future irrigation (reclaimed) water system.
5. Store treated effluent and surface water in an ASR well field within the boundaries of public property during the rainy season.
6. Withdraw water from the ASR well field during the peak dry season and distribute through the irrigation water system.
7. Store or distribute 100% of treated effluent water and eliminate discharge into the Naples Bay.
8. Expand existing irrigation (reclaimed) water system to areas of the city with the highest water usage to eliminate use of potable water for irrigation.

The City of Naples requests grant funding from the Big Cypress Basin Board for the Golden Gate Canal intake structure and transmission line as described above. The construction contract to construct the intake structure and transmission main has been awarded with construction to begin in August 2011. The construction project is scheduled to be completed by October 2012.

#### **B. Objective**

To further reduce the potable water demand on the Lower Tamiami Aquifer and maximize available water supplies by providing an alternative water supply to supplement irrigation water system during high demand periods. Water from the Golden Gate Canal can be stored in an appropriate zone for recovery at a later time when demand exceeds supply.

#### **C. Scope of Work**

The project includes the construction of an intake structure to withdrawal surface water from the Golden Gate Canal in 2011. Then construct a transmission main from the intake structure to the Wastewater Treatment Plant to supplement irrigation water demands by blending canal water and reclaimed water. The transmission main will be constructed in 2012.

#### **D. Work Breakdown Structure**

The major tasks and task description that will be necessary for the completion of the scope of work are as follows.

- **Construction of the Golden Gate Canal Intake Structure**

The Golden Gate Canal Intake Structure project has been awarded with construction scheduled to begin in August 2011. The first phase is to construct the intake structure pump station on the Golden Gate Canal on the south east corner of Bear's Paw Country Club. The pump station is scheduled to be completed by March 2012.

- **Construction of the Golden Gate Canal Transmission Main**

A transmission pipe line will be constructed to pump water from the Golden Gate Canal to the Wastewater Treatment Plant located on Riverside Circle. The transmission main route has been determined as a result of the preliminary design report. The transmission main route will run west down the canal bank along the property of Bear's Paw Country Club then south under the Gordon River to the Naples Airport Property and west under the Gordon River to the Wastewater Treatment Plant. The construction of the Transmission main is scheduled to begin in May 2012 and to be completed by October 2012.

**Exhibit "B1"**  
**Summary Schedule of Tasks and Deliverables**

The DISTRICT's funding contribution in FY12 in the amount of \$980,000 is for the construction of the transmission main. The DISTRICT's funding in the amount of \$400,000 approved for Task #3 of the FY11 AGREEMENT is to be reallocated into Task #3 of this FY12 Amendment A01 for the construction of the transmission main.

<b>Task</b>	<b>Deliverables</b>	<b>Cost</b>	<b>Due Date</b>	<b>District/BCB Not-To-Exceed Amount</b>
1	Start Construction Golden Gate Canal intake structure		8/31/2011	
2	Golden Gate Canal Intake substantially completed	\$2,065,866	3/31/2012	
3	Start Construction of the Golden Gate Canal transmission main including construction management		5/31/2012	\$400,000
4	Construction Golden Gate Transmission Main Substantially complete	\$3,441,712	9/30/2012	\$980,000
	<b>Grand Total</b>	<b>\$5,507,578</b>		<b>\$1,380,000</b>