







**ORIGINAL**

**SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
AMENDMENT**

4600001643-A01

**AMENDMENT NO. 01**

**TO CONTRACT NO. 4600001643**

**BETWEEN THE**

**SOUTH FLORIDA WATER MANAGEMENT DISTRICT**

**AND**

**PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS**

This **AMENDMENT NO. 01** entered into on \_\_\_\_\_, to that **CONTRACT** dated February 19, 2009, between "the Parties," the South Florida Water Management District (**DISTRICT**), and Palm Beach County Board of County Commissioners (**COUNTY**).

**WITNESSETH THAT:**

WHEREAS, the **CONTRACT** may be amended with the prior written approval of the parties; and

WHEREAS, the parties wish to amend the **CONTRACT** in order to revise the Statement of Work and revise the Payment and Deliverable Schedule of the **CONTRACT**;

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

1. This **AMENDMENT NO. 01** shall be effective upon the date of execution by the Parties.
2. This **AMENDMENT NO. 01** shall be at no additional cost to the **DISTRICT**.
3. The Statement of Work, attached as Exhibit "C" to the **CONTRACT**, is hereby amended as set forth in Exhibit "C1", attached hereto and made a part of this **AMENDMENT NO. 01**.
4. The Payment and Deliverable Schedule is also hereby revised in accordance with Exhibit "D1", attached hereto and made a part of this **AMENDMENT NO. 01**.



# SOUTH FLORIDA WATER MANAGEMENT DISTRICT AMENDMENT

IN WITNESS WHEREOF, the parties or their duly authorized representatives hereby execute this **AMENDMENT NO. 01** on the date first written above.

## SOUTH FLORIDA WATER MANAGEMENT DISTRICT

By: \_\_\_\_\_  
**Frank Hayden, Procurement Director**

### SFWMD PROCUREMENT APPROVED

By: Bernadette Harrison  
Date: 8/14/09 *sm*

## PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS

By: \_\_\_\_\_  
Title: John F. Koons, Chairman

Sharon R. Bock, Clerk & Comptroller, PBC

By: \_\_\_\_\_

Approved as to Terms and Conditions

By: Beryl Bennett  
Department Director

Approved as to Form and Legal Sufficiency

By: \_\_\_\_\_

**EXHIBIT "C1"**  
**STATEMENT OF WORK**

Lake Communities Infrastructure Repair Program  
Palm Beach County

**A. INTRODUCTION/BACKGROUND**

The Cities of Pahokee, South Bay and Belle Glade comprise the western communities in the Glades Region of Palm Beach County. They currently receive treated water from the Lake Region Water Treatment Plant, a 10-MGD brackish water reverse osmosis facility that obtains water from the Floridan Aquifer, an alternative water supply source.

The three cities have a high percentage of unaccounted-for water, a portion of which is caused by leaks in the existing water systems. The leaks are due to the age of the infrastructure and poor soil conditions. It is estimated that the leaks account for 110 million gallons of potable water being wasted per year – water that, if captured, may eliminate the additional stress for water placed upon the Floridan Aquifer.

To date, Palm Beach County has spent \$179,000 on leak detection and repair projects for the City of Pahokee.

South Florida Water Management District (**District**) will provide funding to Palm Beach County (**County**) to distribute to the cities of Pahokee, South Bay and Belle Glade for this project.

**B. OBJECTIVES**

This project is intended to repair leaking water mains, services and valves in the Cities of Pahokee, South Bay and Belle Glade to prevent 110 million gallons of potable water per year from being wasted.

When the Glades Utility Authority (GUA) is created in 2009 to eventually serve the Cities of Belle Glade, Pahokee, and South Bay, all three cities will share in the fiscal savings brought about by this project.

**C. SCOPE OF WORK**

The scope of work for this project includes the following infrastructure repairs:

- City of South Bay:
  - Water Main Repair (Various Locations)
  - Replace six (6) 6-inch Gate Valves
- City of Pahokee:
  - Morgan Road Water Main Replacement
  - Repair Aerial Crossing Water Main

- City of Belle Glade:
  - Repair two (2) Water Mains
  - Replace ten (10) Fire Hydrants
  - Repair fifteen (15) 8-inch Gate Valves

#### **D. WORK BREAKDOWN STRUCTURE**

The work breakdown structure associated with this project is described below. Note that if the project is completed prior to the due date of a Quarterly Progress Report (Tasks 1-2), then the Final Report shall replace this and subsequent Progress Reports shall not be required.

Task 1 - Quarterly Progress Report: **County** shall submit to the project manager a status report summarizing progress made to date, issues of concern potentially affecting project performance, and any other information pertinent to the project.

**Due Date:** March 31, 2009

Task 2 - Quarterly Progress Report: **County** shall submit to the project manager a status report summarizing progress made to date, issues of concern potentially affecting project performance, and any other information pertinent to the project.

**Due Date:** June 30, 2009

Task 3.1-3.2: **County** shall be responsible for the replacement of six (6) 6-inch Gate Valves and water main repair at various locations within the City of South Bay.

**Due Date:** August 31, 2009

Task 4.1-4.2: **County** shall be responsible for the repair of Aerial Crossing water main project and replacement of the water main along Morgan Road in the City of Pahokee.

**Due Date:** August 31, 2009

Task 5.1-5.3: **County** shall be responsible for the repair of two (2) water mains, ten (10) fire hydrants, and repair fifteen (15) 8-inch Gate Valves in the City of Belle Glade.

**Due Date:** August 31, 2009

Task 6 - Reimbursement Package & Project Summary Report: **County** shall submit to the project manager the reimbursement request package, to include but not limited to, signed certification letter that the project is complete per the contract, copies of vendor invoices, documented man-hours, and any other in-kind contributions.

**Due Date:** August 31, 2009

Task 7 - Final Report: **County** shall submit to the project manager a Final Project Report summarizing all work performed during the course of the project as well as actual water savings to date versus original estimated water savings.

**Due Date:** September 30, 2009

Task 8 - Assessment of Actual versus Estimated Water Savings Report: **County** shall submit to the project manager a post-project performance report highlighting the project's actual water savings compared to the estimated water savings as presented in the **County's** project proposal.

**Due Date:** September 29, 2010

**EXHIBIT "D1"**  
**SUMMARY SCHEDULE OF TASKS AND DELIVERABLES**

Lake Communities Infrastructure Repair Program  
Palm Beach County

- A summary deliverable schedule associated with this project is set forth below.
- The **County** shall submit all deliverables to the **District's** Project Manager. All deliverables submitted hereunder are subject to review by the **District**. The **County** hereby agrees to provide the **District** all deliverables, data and information described in the Statement of Work.
- The **County** shall provide quarterly progress reports summarizing a brief description of the current status of the project and the extent of project completion. Progress reports are due by March 31, 2009; and June 30, 2009. The project summary shall be submitted on the Progress Summary Report, in the attached format, and is due no later than August 31, 2009. The final project report is due no later than September 30, 2009. Reports will provide detail on the progress of the project and outline any potential issues affecting project completion. Quarterly progress reports shall be submitted by the due date noted below, in the format attached.
- The **County** shall provide a post-project performance report highlighting the project's actual water savings compared to the estimated water savings as presented in the project proposal. This Assessment of Actual versus Estimated Water Savings Report is due no later than September 29, 2010.
- Reimbursement Request Packages may be submitted on a quarterly basis for partial payment toward all project-related hardware delivered and installed as outlined in the Statement of Work. Invoices shall be accompanied by proper documentation verifying completion of items invoiced. Timely payment of invoices shall be contingent upon the **District's** review and acceptance of all invoice(s). Final payment is subject to the final project cost. All Reimbursement Request Packages shall be submitted no later than August 31, 2009 for reimbursement. Total payment by the **District** for all work completed herein *shall not exceed* the amount of \$308,000.00. All payments are subject to **District** fiscal year appropriations.
- If the total consideration for this **Agreement** is subject to multi-year funding allocations, funding for each applicable fiscal year of this **Agreement** will be subject to Governing Board budgetary appropriation. In the event the **District** does not approve funding for any subsequent fiscal year, this **Agreement** shall terminate upon expenditure of the current funding, notwithstanding other provisions in this **Agreement** to the contrary.

Task No.	Deliverable(s)	Reimbursement Request Package Due Date <sup>1</sup>	Report Due Date	District Not-To-Exceed Payment
1	Quarterly Progress Report	N/A	March 31, 2009	N/A
2	Quarterly Progress Report	N/A	June 30, 2009	N/A
3.0	City of South Bay			
3.1	Water Main Repair (Various Locations)/Reimbursement Request Package	Upon Task Completion	N/A	\$8,000
3.2	Repair six (6) six-inch Gate Valves/Reimbursement Request Package	Upon Task Completion	N/A	\$27,000
4.0	City of Pahokee			
4.1	Morgan Road Water Main Replacement/Reimbursement Request Package	Upon Task Completion	N/A	\$89,100
4.2	Repair Aerial Crossing Water Main Reimbursement Request Package	Upon Task Completion	N/A	\$48,000
5.0	City of Belle Glade	N/A	N/A	N/A
5.1	Repair two (2) Water Mains/Reimbursement Request Package	Upon Task Completion	N/A	\$12,800
5.2	Repair ten (10) Fire Hydrants /Reimbursement Request Package	Upon Task Completion	N/A	\$45,900
5.3	Repair fifteen (15) 8-inch Gate Valves/Reimbursement Request Package	Upon Task Completion	N/A	\$77,200
6	Reimbursement Request Package & Project Summary Report	August 31, 2009	August 31, 2009	N/A
7	Final Project Report	N/A	September 30, 2009	N/A
8	Assessment of Actual versus Estimated Water Savings Report	N/A	September 29, 2010	N/A
			<b>Total District Funding</b>	<b>\$308,000</b>
			Total Project Cost	\$308,000

<sup>1</sup> If applicable, interim Reimbursement Request Packages shall be submitted upon completion of the task(s) noted above. Reimbursement Request Packages must be submitted no later than August 31, 2009. Reimbursement Request Package(s) shall include but not limited to, a copy of County's invoice, signed certification letter that task(s) are complete per the contract, copies of vendor invoices, documented man-hours, and any other in-kind contributions.





FY 2009  
SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
WATER SAVINGS FOR LEAK DETECTION FUNDING  
QUARTERLY PROGRESS REPORT FORM

Contract #:	Reporting Quarter: <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4
Project Title:	Funding Recipient:
Progress Summary:	
Tasks Completed:	Tasks Behind Schedule:
Recommended Actions:	
Submitted by: _____, Project Manager, E-Mail: _____	
Report Submittal and/or Questions: Please e-mail Ashie Akpoji at <a href="mailto:aakpoji@sfwmd.gov">aakpoji@sfwmd.gov</a>	
SFWMD Staff Only:	Date Received: _____ by: _____
Project Status: <input type="checkbox"/> Commenced <input type="checkbox"/> On Schedule <input type="checkbox"/> Behind Schedule <input type="checkbox"/> Completed <input type="checkbox"/> Closed	



**SOUTH FLORIDA WATER MANAGEMENT DISTRICT  
2008 – 2009 WATER SAVINGS LEAK DETECTION FUNDING  
Project Summary Report – FY 2009**

Project Title \_\_\_\_\_

Entity Project Manager \_\_\_\_\_

SFWMD Contract Number \_\_\_\_\_

Entity Name (Project Owner) \_\_\_\_\_

Type of Water Savings Incentive Project	Project Start Date	Project End Date	Proposed Water Savings	Actual Water Savings	Method of Water Savings Calculation
					<i>Please refer to page 2 of Exhibit "D"</i>

Was the original project scope fulfilled?  Yes  No      If no, provide an explanation below.

COST FOR THIS PROJECT		
	Proposal Estimate	Actual Costs
Total Project Cost	\$	\$
FUNDING BREAKDOWN FOR THIS PROJECT		
District funding	\$	\$
Local funds	\$	\$
Other funding source / in-kind services		
From:	\$	\$
<b>TOTAL PROJECT COST</b>		

To the best of my knowledge, the above information is correct

Entity Project Manager \_\_\_\_\_

*- All supporting documentation is to be included to support Actual Costs and Actual Water Savings for this project as specified in the deliverables table. Supporting documentation is to include but not limited to, copy of Entity invoice, Entity signed completion letter, copies of vendor invoices, documented man-hours, and any other in-kind services.*

### **Methods of Water Savings Calculation**

The most direct way to calculate water use entails a comparison between pre- and post-project meter readings or utility bills. We recognize that each project has unique characteristics and circumstances. It is up to the on-site project manager to arrive at a method that would most accurately measure, calculate or estimate project water savings. Below are examples of possible ways to calculate water use and savings. There may be others. The 'proposed' water savings (requested above) should be what was listed in the original application.

#### **Example 1. Water Bill Method**

Example project – Purchase and installation of Computerized Irrigation Management System at an HOA.

##### **Under the old irrigation system:**

Total gallons of water used to irrigate common areas and the clubhouse's regular consumption from September 2005 to September 2006 was 968,465 gallons (annual sum of monthly 'Current Usage' values from entity's water bill).

##### **Under the new irrigation system with rain and soil moisture sensors:**

Total gallons of water used to irrigate common areas and the clubhouse's regular consumption from March 2007 to March 2008 was 769,237 gallons.

Savings of 199,228 gallons per year.

#### **Example 2. Vendor Estimate Method**

Example Project- Plumbing retrofit.

**Old toilets:** 5 gallons per flush (as per product stamp)

5 gallons per flush x 5 flushes per day x 322 toilets replaced x 365 days = 2.94 gallons per year.

**New toilets:** 1.1 gallons per flush (as per manufacturer or vendor listing)

1.1 gallons per flush x 5 flushes x 322 toilets installed x 365 days = 6.46 gallons per year.

Savings of 2.29 gallons per year.

#### **Example 3. Volume Method**

Example project – Purchase and installation of Computerized Irrigation Management System.

##### **Under the old irrigation system:**

Irrigation was pre-set to be delivered 2 days per week for 3 hours per watering. This totals at 104 watering events over one year (2 x 52 weeks). There are 25 sprinkler heads that deliver 2.5 gallons per minute (or 150 gallons per hour).

104 watering events x 3 hours x 150 gallons per hour x 25 heads = 1.17 million gallons per year

##### **Under the new irrigation system with rain and soil moisture sensors:**

Irrigation was set for 2 days per week for 2.5 hour per watering. Potential total of 104 watering events in one year. Sensor devices sensed an actual need for 68 watering events over one year for an average of 2.5 hours each (as pre computer log).

68 watering events x 2.5 hours x 150 gallons per hour x 25 heads = 0.64 million gallons per year

Savings of 0.53 million gallons per year