

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY

Meeting Date: December 17, 2013 Consent [X] Regular []
Public Hearing []

Department: Water Utilities Department

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: **A)** the Acceptance of funds from the South Florida Water Management District (SFWMD) Water Savings Incentive Program (WaterSIP) in the amount of \$23,375 for the period October 1, 2013 to August 29, 2014; and **B)** a Budget Amendment of \$23,375 in the Palm Beach County Water Utilities Department (WUD) Fund (720-2556-4615) to budget the award of the funds.

Summary: The SFWMD WaterSIP provides funding for the installation of 20 automatic flushing devices at dead end locations along WUD's potable water distribution system. The intent of the WaterSIP is to provide funding to save water through demand reduction. Implementation of water demand conservation projects is vital to the future of Florida's water resources. There is a required local sponsor match of approximately \$70,000 that will be met by the expenditure of previously budgeted PBCWUD operating expenses. Millions of gallons of potable water are being saved every day because utilities have installed water conservation devices funded through this program. Countywide (MJ)

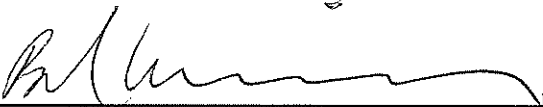
Background and Justification: WUD's distribution system has numerous dead end locations that require diligent attention to maintain proper water quality. WUD has instituted a program to identify the areas where the most acute problems exist and where manual flushing methods have proven inefficient in the use of water and staff time and resources. In these areas, WUD has committed to installing automatic line flushing devices. The installation of automatic line flushing devices will reduce the amount of potable water currently wasted while increasing the quality of the potable water for our residents. Additional benefits include better utilization of WUD's staff, reduced operating costs and decreased service interruptions. Long term, this will result in less water being drawn from the Biscayne Aquifer, which will extend its life and subsequently lower the potential for salt-water intrusion.

WUD estimates that this project will save 6.24 million gallons of potable water annually. This project will be completed by August 29, 2014.

Attachments:

- 1. Award Letter & Grant Application
- 2. Budget Amendment Form

Recommended By:  12/2/13
Department Director Date

Approved By:  12/9/13
Assistant County Administrator Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2014	2015	2016	2017	2018
Capital Expenditures	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
External Revenues	<u>(\$23,375.00)</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Operating Expenses	<u>\$93,500.00</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
In-Kind Match County	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
NET FISCAL IMPACT	<u>\$70,125.00</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
# ADDITIONAL FTE POSITIONS (Cumulative)	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>

Budget Account No.: Fund Dept Unit Rsrc

Is Item Included in Current Budget? Yes No X

Reporting Category N/A

B. Recommended Sources of Funds/Summary of Fiscal Impact:

WUD will receive \$23,375 from SFWMD under this agreement. Acceptance of the WaterSIP grant will decrease the cost to PBCWUD for expenses currently included in the Operations and Maintenance Budget (Fund 4001).

C. Department Fiscal Review: Delra moveit

III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Development and Control Comments:

Susan Neary 12/4/13
OFMB 11/25 12/2

Dr. J. Peabody 12/16/13
Contract Development and Control
12-5-13 B. Wheeler

B. Legal sufficiency:
[Signature] 12/9/13
Assistant County Attorney

C. Other Department Review:

Department Director

This summary is not to be used as a basis for payment.



SOUTH FLORIDA WATER MANAGEMENT DISTRICT

October 14, 2013

Bevin Beaudet, P.E.
Director
Palm Beach County Water Utilities
8100 Forest Hill Boulevard
West Palm Beach, FL 33413

SUBJECT: Fiscal Year 2014 Water Savings Incentive Program Award
Project: Automatic Line Flushing Devices

Bevin
Dear Mr. Beaudet:

The South Florida Water Management District (District) would like to express our appreciation for your interest in the Fiscal Year 2014 Water Savings Incentive Program (WaterSIP).

After careful consideration of your written proposal, the project referenced above was approved for funding in the amount of **\$23,375** by our Governing Board at their October 10, 2013 meeting. You will be receiving an information packet including a draft Purchase Order in the mail shortly for this project.

We appreciate your commitment to water conservation and look forward to working with you on this important project. If you have any questions, or need additional information, please contact Stacey Adams at (561) 682-2577 or sadams@sfwmd.gov.

Sincerely,

A handwritten signature in cursive script that reads "Mark E. Elsner".

Mark E. Elsner, P.E., Administrator
Water Supply Development Section

ME/kh

c: Stacey Adams, SFWMD

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

FISCAL YEAR 2014

WATER SAVINGS INCENTIVE PROGRAM

Cooperative Funding
Guidelines and Application

sfwmd.gov

A Message from the Interim Executive Director...



This is the thirteenth consecutive year the South Florida Water Management District is offering a program for the implementation of technology-based water conservation projects that address the demand side of the water use equation. The intent of the Water Savings Incentive Program, or WaterSIP, is to provide funding to save water through demand reduction. Implementation of water demand conservation projects is vital to the future of Florida's water resources.

The *Water Savings Incentive Program Cooperative Funding Guidelines and Application* describes requirements and provides instructions to apply for funding. Projects must provide matching funds and be completed by August 29, 2014. Millions of gallons of water are being saved every day because utilities and local governments have installed water conservation devices funded through this program.

On behalf of the South Florida Water Management District, I encourage you to take advantage of this opportunity to apply for funding to implement water conservation projects within your municipality, utility service area, industrial, or commercial facility or homeowners' association.

Through the implementation of partnerships today, we can help meet south Florida's future water needs.

Sincerely,

A handwritten signature in blue ink that reads "Ernie Barnett". The signature is written in a cursive, flowing style.

Ernie Barnett
Interim Executive Director

1. FUNDING APPLICATION DEADLINE AND MAILING INSTRUCTIONS

Deadline: Friday, September 13, 2013, no later than 3:00 p.m.

Copies: Four (4) printed copies of the entire Application package (Statement of Work, Funding Proposal, Project Criteria Checklist, etc.), including one (1) marked "Original", submitted in a sealed envelope/box. Two (2) electronic copies of the entire Application package—one a Microsoft Word file and the second, a scanned PDF file including all signatures—burned to one (1) CD-ROM or DVD and included in the same sealed container.

Clearly marked on the outside of the sealed envelope/box as follows: "Water Savings Incentive Program Cooperative Funding Application – WaterSIP FY 2014, Attention: Karen Hargray," along with the Applicant's name and return address. The South Florida Water Management District (SFWMD or District) assumes no responsibility for applications not properly marked. Receipt of an application by a District office, receptionist, or personnel other than the Water Supply Implementation Section does not constitute "delivery." Applications submitted via facsimile (fax) transmission or other "electronic" means will not be accepted.

Submit to: South Florida Water Management District
Water Supply Implementation, B-2 Building
3301 Gun Club Road
MS 4220
West Palm Beach, FL 33406

Inquiries to: Robert Wanvestraut, Senior Conservation Analyst
Telephone: (561) 682-2054
Email: rwanvest@sfwmd.gov
Website: www.sfwmd.gov/watersip

Stacey Adams, Project Manager
Telephone: (561) 682-2577
Email: sadams@sfwmd.gov
Website: www.sfwmd.gov/watersip

2. POLICIES AND GUIDELINES

General Requirements

This section contains general information about the requirements for the WaterSIP Funding Program. The Application is provided and the review process is explained in subsequent sections. Every applicant must satisfy these requirements.

Definitions

"Applicant" – All governmental entities, including water providers and large users; local governments; water, wastewater and reuse utilities; municipal, industrial, commercial, institutional, and agricultural water users; and homeowners' or condominium associations submitting an Application to seek an award from the District pursuant to this cooperative funding program.

"Application" – A written document from an applicant seeking an award from the District pursuant to this reimbursement program.

"Approved Funding" – The allocation of monies to an Applicant based on estimated costs as presented in the Application.

"District" – The South Florida Water Management District.

"Funding or Actual Funding" – An allotment of monies disbursed toward the payment of non-capital costs based on actual costs incurred and the percentage of scope of work fulfillment for the installation of water demand reduction measures.

"Funding Period" – October 1, 2013 to August 29, 2014.

"Ineligible" – A determination that the Application does not comply with the material requirements of this reimbursement program.

"Non-Capital" – Not part of a public water provider or user's capital improvement program.

"Participant" – The Recipient and end user of the conservation hardware. May or may not be the same as the Applicant.

"Project" – The written description included in the Application that determines the eligibility for cooperative funding.

"Project Cost" – The total cost of the water conservation project located within the South Florida Water Management District.

"Recipient" – The Applicant that has been awarded District funding in support of a project.

"Purchase Order" – A mutually binding legal relationship, written representation, understanding, or contract between two or more parties, which includes consideration and contains terms and obligations governing the relationship between or among the parties.

"REDI" – The Rural Economic Development Initiative (REDI) as defined in Section 288.0656, Florida Statutes (F.S.), specifying that REDI communities do not have to provide matching funds for financial match programs.

WaterSIP Objective

The objective of the WaterSIP Program is to foster water conservation efforts of public and private water providers and large users within the SFWMD boundaries, defined in Paragraph 373.069(2)(e), F.S. Projects that use technology to implement water conservation are under consideration for funding through this program. Types of projects that have received funding in previous years include automatic line flushing devices for hydrants, indoor plumbing retrofits, large area “smart” irrigation controllers, and soil moisture and rain sensor technology for irrigation systems. Pilot or demonstration projects are not eligible for funding. The District continues to expand participation by encouraging industrial, commercial, and institutional water users, as well as homeowners’ or condominium associations to apply.

Project Eligibility Compliance

Applicants that do not include all required documentation as outlined in this Application will be deemed ineligible.

To be deemed eligible, entities shall comply with all of the following requirements:

- ✓ Be a public or private water provider or large user or homeowners’ or condominium association. Individual residences are not eligible.
- ✓ The scope of any project must provide at least 0.5 million gallons per year (MGY) in water savings (for water supply utilities, municipalities, or government agencies).
- ✓ Total project costs must be at least \$15,000 in total expenditures for water supply utilities, municipalities, or government agencies (the potential shared match for these types of agencies or institutions could be \$7,500 from the Applicant and \$7,500 from the District).
- ✓ Adhere to the Application instructions.
- ✓ Adhere to applicable laws and regulations.
- ✓ Comply with allowable funding costs (see *Funding Costs* section of these guidelines).
- ✓ Applicant must be able to cover the entire project cost independent of District funding; however, this may be waived if the Applicant is a REDI Community.
- ✓ The *Application Form* must be signed by an individual with signature authority on behalf of the Applicant.

Failure to comply with any of these requirements will render the Application “ineligible.” A list of previously funded WaterSIP Projects is available from the District’s WaterSIP website at www.sfwmd.gov/watersip.

Other Requirements, Restrictions, and Standards

The following shall apply to all Projects:

- Verification of successful hardware installation is required. Proof of installation includes an invoice indicating hardware installation or a signed statement by the Recipient stating that all products were visually inspected in their final state of installation.
- Applicants are responsible for the proper disposal of all inefficient hardware/technology replaced as part of the Project.

Specific requirements for Plumbing Retrofit Projects include the following:

- Fixture exchange programs cannot function as a give-away project (i.e., an inefficient fixture must be collected for each high efficiency fixture distributed). Recipients' names and addresses are required as part of the closeout package.
- In commercial settings, research in the use of 1.28 gallon per flush toilets is still underway. Therefore, it is recommended to replace older models (pre-1994, flushing at greater than 1.6 gallons per flush) with models flushing at 1.6 gallons per flush with a MaP rating of ≥ 500 grams. Refer to [*High-Efficiency Flushometer Toilets in Non-Residential Applications*](#) (at www.allianceforwaterefficiency.org).

 - Commercial toilets using flushvalves (flushometers) do not have to be WaterSense approved, but must have a MaP rating of ≥ 500 grams. MaP ratings can be found at www.map-testing.com/.
 - In commercial settings where tank-type toilets (light-use) are used, toilets with < 1.6 gallon per flush ratings are not recommended at this time. Older toilets may be replaced by models flushing at 1.6 gallons per flush with a MaP rating of ≥ 500 grams.
 - China and flushvalve 'gallon per flush' ratings must match.

- All toilet retrofit projects involving toilets with flappers will include an educational component that addresses leak detection and proper flapper replacement selection and installation.
 - Flappers will degrade and leak due to chlorine compounds used in water treatment.
 - A leaking flapper valve in a toilet can leak at a rate of five drops per second.
 - At five drops per second, the amount of water lost per day is 43.2 gallons, 1,296 gallons per month, and 15,552 gallons per year.

All water using devices must meet the standards outlined in Table 1.

Table 1. Plumbing and Appliance Fixture Retrofit or Replacement Standards for WaterSIP Projects

Device	Standard
Toilets, tank (Residential)	EPA WaterSense approved with a MaP rating of ≥ 500 grams
Toilets, Commercial Flushometer ¹	1.6 gallons/flush bowl/valve combination with listed MaP rating of ≥ 500 grams (see footnote below); 1.28 gallons per flush models not recommended at this time.
Showerheads	EPA WaterSense approved: Flow rate of 2.0 gallons/minute or less (1.75 gallons/minute is suggested)
Bathroom Faucets	EPA WaterSense approved: Flow rate of 1.0 gallons/minute or less for residential fixtures; 0.5 gallons/minute for commercial fixtures.
Urinals	EPA WaterSense approved: Flush volume of 0.5 gallons/flush or less (0.125 gallons/flush is suggested)
Kitchen Faucets	EPA WaterSense approved Flow rate of 1.5 gallons/minute or less (1.0 gallons/minute can also be used)

Device	Standard
Commercial kitchen pre-rinse spray valves	Flow rate of 1.6 gallons/minute or less
Clothes washers & Dishwashers	Must be ENERGY STAR® rated ²

1 – Please refer to www.map-testing.com/, click on “MaP Search” (at left).

2– ENERGY STAR (www.energystar.gov) maintains a list of efficiency-qualified clothes washers, which include the Water Factor Rating. See Appendix 3 for *WaterSense* website information.

The following are specific requirements for Irrigation Efficiency Improvement Projects:

- Applicants engaging in irrigation efficiency improvements must meet the minimum (prerequisite) standards of “Florida Water Star” in those areas of the irrigation system affected by the Project. Parts of the irrigation system not affected by the Project are not required to meet Florida Water Star standards, as stated on the *Florida Water Star* website at www.sjrwmd.com/floridawaterstar.
- To receive reimbursement, projects involving irrigation technology devices (i.e., soil moisture sensors, rain sensors, etc.) must show proof that these items are installed and/or inspected by a professional who is a member of a recognized irrigation professional trade organization such as, but not limited to, the Irrigation Association, the Florida Irrigation Society, or the Florida Nursery, Growers and Landscape Association. A professional who has received certification in irrigation efficiency from these agencies or another agency (such as the EPA’s *WaterSense* program) is also admissible. An invoice showing charges for project hardware installation or a signed statement indicating an inspection of devices installed by a professional is required with the closeout package.

The following projects and components are not eligible for funding:

- Waterless urinals.
- Toilet retrofit kits that replace internal tank components.
- Toilet retrofits for currently installed toilets flushing at 1.6 gallons/flush or less.
- Projects involving hookups to reclaimed water sources.
- Projects that qualify as an Alternative Water Supply project (capital/construction).
- The installation of a new irrigation system, irrigation wells, pumps, or the extension of an existing irrigation system to an area not previously irrigated.
- Indoor fixtures for new construction.
- Indoor/Outdoor water use evaluations.
- Landscape materials.
- Dual flush valves for commercial buildings.
- Automatic meter reading, fixed network, mobile meter reading, etc. type projects.

Funding Compliance Review

The District will ensure the proper use of funding by requiring partners to comply with the terms and conditions of the Purchase Order. Additionally, the District will ensure compliance through:

- Potential site visits of the Project.
- Reviews of quarterly progress reports required by the Purchase Order.
- Thorough reviews of deliverables, all financial expenditure documentation (financial expenditure documentation may include, but is not limited to, vendor invoices and check payments, and records for all in-kind services), and verification of hardware installation.

Periodically, the District will perform audits to ensure funding objectives are being met.

Funding Costs

Allowable Costs

- Funding may only be used for the Project identified in the Application.

Non-allowable Costs

- Expenses incurred or obligated before or after the funding period (October 1, 2013–August 29, 2014).
- Regular operations and maintenance costs, such as replacement of utility meters, sewer lines, and pumps.
- Lobbying or attempting to influence federal, state, or local legislation.
- Bad debts, contingencies, fines and penalties, interest, and other financial costs.
- Private entertainment, food, beverages, plaques, awards, or scholarships.
- Projects restricted to exclusive participation, which include restricting access programs based on sex, race, color, national origin, religion, handicap, age, or habitat. A project can *target* a certain group, such as low-income and/or senior residential water users, but cannot restrict participation based on the previously mentioned distinctions.
- Funding used to underwrite other funding programs.
- Expenses associated with the preparation, submission, or presentation of this Application.
- Contributions or donations to other organizations.
- Projects that are capital improvement in nature (non-conservation related construction, i.e., alternative water supply projects). However, if an applicant has set up portions of their capital improvement program to include water conservation projects, those project costs would be eligible.
- Projects that are research, design, educational, study, test, exploratory, pilot, or demonstrative in nature.
- New construction, new irrigation systems, or extensions of existing irrigation systems to areas not previously irrigated.
- In-kind services cannot include educational programs and materials, such as coloring books, stickers, etc.; waived fees; or an individual's entire annual salary.

Funding Policy

WaterSIP is a reimbursement program. Therefore, the Applicant is expected to execute the full scope of the Project without District funds. The maximum cooperative funding amount is up to 50 percent (50%) of the total actual purchase and/or installation cost of the Project, or up to \$50,000, whichever is less in total. Funds are awarded to applicants based on estimated project costs as reported in the Application and are reflected as a percentage in the Summary Schedule of Tasks and Deliverables.

If the project scope is not fulfilled to 100 percent (100%) completion as outlined in the Statement of Work, the District's funding amount will be prorated and reduced to match the percentage of the project scope that is fulfilled. In the event the project scope is achieved to 100%, as outlined in the Statement of Work, and the total actual project costs are below the estimated total project cost, the Recipient may be eligible to receive up to the full award amount, as long as the minimum 50% match of the actual project cost is met by the Recipient. In no event shall the District's funding amount exceed 50% of the actual expenditures. All projects must be completed and invoiced by August 29, 2014. By this time, the entire Scope of Work must be completed and actual costs must be accounted for and supported by evidence including, but not limited to, vendor invoices and check payments, records for all in-kind services, and verification of hardware installation. Failure to supply evidence of all financial expenditures and in-kind services may result in the withholding of funds by the District.

Funding support for the conservation items in Table 2 will be supported up to 50% of the total actual purchase and installation costs or up to the amounts indicated, whichever is less in total based on the availability of District funds.

Table 2. Allowable Funding Limits for Common Conservation Items.

Conservation Item	Allowable Funding Limit
Automatic line flushing devices	Up to \$3,000 each
High-efficiency toilets	Up to \$145 each
High-efficiency showerheads	Up to \$20 each
High-efficiency aerators	Up to \$1 each
High-efficiency urinals	Up to \$140 each
Soil moisture sensors	Up to \$145 each
Rain sensors	Up to \$120 each
Pre-rinse spray valves	Up to \$55 each
Clothes washers	Up to \$100 each
Dishwashers	Up to \$100 each

Avoid these two budget planning pitfalls:

Pitfall 1 If the project is budgeted anticipating a funding level of 50% of the total project cost (or anticipating that the project will be granted the maximum funding level of \$50,000) and project funding support is approved at a lower level, the Recipient will still be obligated to fulfill the proposed project scope to receive the full award.

For example:

Proposed project cost: \$40,000 (to purchase and install 1,000 items)
Anticipated funding level: \$20,000
Anticipated Recipient share: \$20,000

If the approved funding level is granted at \$10,000, the Recipient is still obligated to purchase and install 1,000 items and is thus responsible to produce and spend the remaining \$30,000. Failure to purchase and install all 1,000 items will result in a prorated reduction of the actual funding level below the \$10,000. In this example, the award is 25% of total cost. If the Recipient expends \$20,000 for 500 items, they would receive \$5,000. If they purchase and expend \$32,000 for 800 items, they would receive \$8,000. If they purchase all 1,000 for \$30,000 they may be eligible to receive the full \$10,000.

Pitfall 2 If the project's budgeted funds are spent before the scope of the project is fulfilled and the additional funds cannot be secured, the actual funding level will be prorated and reduced to the proportion of the fulfilled scope.

For example:

If your proposed project cost is \$50,000 to purchase and install 1,000 items, and you spend \$50,000 to purchase and install only 800 items and do not have additional funds to complete the 1,000 item scope, then your actual funding level will be reduced as follows (assuming an approved funding level of \$25,000):

<u>\$25,000 approved funding</u>	becomes	<u>\$20,000 actual funding</u>
1,000 items in project scope		800 items actually installed

Overestimating or inflating the proposed scope of a project could also result in failing to meet project goals.

To avoid these pitfalls:

- Propose to do only what you can do without District funds.
- Propose an educated, researched project cost estimate.
- Be sure you can fulfill the project scope within the specified timeframe.

Reporting

If selected for the program, quarterly status reports, a final project summary report, and backup documentation shall be required for submittal. Further information is provided to the selected applicants. These forms are available on the District's website at www.sfwmd.gov/watersip.

Withdrawal of Application / Project

Applicants may withdraw their submitted application by notifying the District in writing or in person through an authorized representative at any time before the submission deadline. Applications, once received, become the property of the District. Applications are not returned to the Applicant even if withdrawn from consideration. If budgeted or draft budget funding for a project is not secured or is removed from a Recipient's budget, the Recipient may withdraw the awarded project by 4:00 PM on October 11, 2013 without incurring a Past Performance penalty. Applicants that withdraw awarded projects after 4:00 PM on October 14, 2013 or later, will receive a Past Performance penalty. A project withdrawal must be done in writing or email addressed to Stacey Adams, Project Manager and to Robert Wanvestraut, Senior Conservation Analyst.

Application Development Costs

Neither the District nor its representatives shall be liable for any expenses incurred through the preparation, submission, or presentation of the funding Application, nor shall said expenses be reimbursed using the funding program. All information in the Application shall be provided at no cost to the District.

Award

The Applicant understands that this Application does not constitute a Purchase Order with the District. No Purchase Order is binding or official until applications are reviewed and accepted by the District, approved by the SFWMD Governing Board, and the Parties duly execute an official Purchase Order. The District reserves the right not to issue any funding whatsoever, if it is in the best interest of the District.

Funding Commitment and Waiver or Reduction of Matching Funds

The Applicant must sign the Acknowledgment of Financial Commitment form, which states sufficient funds are available to execute the entire proposed project independent and irrespective of District-awarded funding assistance. If a third party is providing funding, in-kind services, commodities, or permissions for the Project, a letter indicating such commitment, on the third party provider's letterhead, shall be required. The letter must be signed by the person authorized to bind the third party and indicate the person's title and authority. The Applicant shall be required to obtain all relevant documentation from the third party to support reimbursement.

Note: A local government qualifying as a "rural community" (Rural Economic Development Initiative "REDI") under Section 288.0656, F.S. may request a waiver or reduction in the match requirement for this program, pursuant to Section 288.06561, F.S. A local government requesting such a waiver shall submit verification of its qualifications as a "rural community" from the Office of Tourism, Trade, and Economic Development. The REDI community areas within District boundaries include Glades, Hendry, Highlands, and Okeechobee counties; city

limits of Pahokee, Belle Glade, and South Bay; and the Round II Federal Rural Enterprise Community area around Immokalee. However, the “rural community” designation may change, and it is incumbent upon the Applicant to determine whether it is a REDI community.

3. APPLICATION REVIEW PROCESS

District staff, acting in a technical advisory role, reviews each Application for consistency with the District’s consumptive use permitting goals, planning objectives, and eligibility. The District ranks the eligible projects based on program considerations and guidelines as presented in Table 3. The recommended project list is presented to the District’s Governing Board for approval.

Table 3. FY2013 Considerations and Guidelines

Considerations	Guidelines
Cost-effectiveness, expressed as dollars per 1,000 gallons saved or \$/kgals	Demonstrates cost-effectiveness in installation, design, and use. Savings of potable water are more valuable than savings of non-potable water*.
Conservation efficiency (estimated number of gallons saved per year compared to other FY2014 applicants)	Implement conservation technology in a manner that saves significant amounts of water per device, results in minimal adverse environmental impacts, and uses energy efficiently.
Environmental and/or community benefits	Provides environmental water quality improvements or other resource benefits, such as habitat improvement, and/or benefits a low-income or affordable housing community in addition to meeting other considerations.
Innovation	Showcases innovation using new technology or the method in which the Project or technology is being implemented.
Quality and detail of project planning	Application demonstrates a high level of detail and planning.
Past Performance (Applicant’s record of past WaterSIP project completion)	The Applicant has no record of failing to complete work under a WaterSIP project within the funding period of the respective fiscal year.

* The order of source water value is as follows, with 1 being the most valued:

1. Potable Water from a utility at risk for saltwater intrusion based on elevated chloride levels in monitoring wells or within a Restricted Allocation Area (Section 3.2.1 of the Water Use Basis of Review).
2. Potable Water from a utility not at risk for saltwater intrusion.
3. Surficial well water in the service area of a utility at risk for saltwater intrusion based on elevated chloride levels in monitoring wells.
4. Surficial well water in the service area of a utility not at risk for saltwater intrusion.
5. Water from a canal or stormwater catchment area (such as a man-made lake within a housing development).
6. Reclaimed water.

4. APPLICATION INSTRUCTIONS

Read all of the instructions and requirements thoroughly before preparing, completing, and submitting the Application package. Incomplete Application packages are declared ineligible and are not reviewed by staff.

All applicants will be notified in writing of the FY2014 WaterSIP process outcome.

Read and Follow the Instructions Thoroughly

- Complete all sections of the Application.
- Answer questions in a clear, concise manner.
- Type directly into the gray spaces () provided within the Application form. Save your work and print when ready.
- Contact Robert Wanvestraut at 561-682-2054 or email rwanvest@sfwmd.gov or Stacey Adams at 561-682-2577 or email sadams@sfwmd.gov for assistance.

Application Format and Application Package Contents

- Transmittal Letter.
- Application signed by authorized person.
- Application Checklist.
- Certification of REDI Community (if applicable).
- Acknowledgement of Financial Commitment Form.
- Inclusion of any other supporting documentation, such as vendor descriptions of hardware performance, etc.

An explanation of each of these preceding documents or forms is contained in the sections that follow.

Application Form Signed by Authorized Person

Each application submitted by an entity shall state the name and contact information of all persons or entities having an interest in the Application. Only a person having the legal authority to bind the Applicant shall sign the Application. In no case may an Application be transferred or assigned by an applicant.

Project Cost Itemization

A full breakdown of project costs is required in the Application. Applicants will enter all costs for project items and related eligible in-kind services into the *Project Cost and Funding Itemization* subsection of the *Application* (Section 5). The sum of these items is reported as the Total Project Cost. Reimbursement is up to 50% with a maximum funding level of up to \$50,000, whichever is less.

Submittal Instructions

Prepare the Application package to include four (4) printed copies [with one (1) marked "Original"] of the entire Application package (Statement of Work, Funding Proposal, Project Criteria Checklist, etc.), and two (2) electronic copies (one a Microsoft Word file and one

a scanned PDF file, including signatures) of the entire Application package on one (1) CD-ROM or DVD.

· Proceed to the next page for the Application Package ·

TRANSMITTAL LETTER

All applications shall contain a transmittal letter highlighting the Applicant's reasons for requesting funds. This letter shall be addressed to Robert Wanvestraut, Senior Conservation Analyst, and shall be on official letterhead. The letter shall provide a concise overview of the proposed project, which shall include the need for the Project, the target group, the area of the District to be served, the primary strategies for implementation, and an evaluation of the short- and long-term benefits of the Project, including the estimated water demand reduction. The letter shall name the person authorized to make representations on behalf of the Applicant and their title, address, email address, and telephone number. The letter shall declare the Application was prepared without collusion with any other person or entity submitting an application pursuant to the WaterSIP Funding Program. A person authorized to bind the Applicant must sign the transmittal letter indicating the person's title and authority. Please limit this to one page.

APPLICATION



**SOUTH FLORIDA WATER MANAGEMENT DISTRICT
FY2014 WATER SAVINGS INCENTIVE PROGRAM**

The undersigned Applicant has read all of the terms and conditions of the *Water Savings Incentive Program Cooperative Funding Guidelines and Application*, and certifies that all of the information contained within this Application and subsequent attachments is true and correct to the best of his/her knowledge.

Applicant's Legal Name: Palm Beach County Water Utilities Department (State Div./Dept. if applicable)	Applicant's Address: 8100 Forest Hill Blvd. West Palm Beach, FL 33413
Project Title: Installation of Automatic Line Flushing Devices Description: Installation of 20 automatic flushing devices on potable water mains to reduce water used through routine fire hydrant flushing.	Funding Amount Requested: \$46,750 County in which Project will be Built: Palm Beach County
Type of Organization: Public Water and Wastewater Utility	Date of Incorporation: State of Incorporation: Federal ID No.:

Has your organization ever received funding under the Water Savings Incentive Program for this Project?
 Yes No

Project Title	Year Funded	Approved Funding	Actual Funding


Has your organization done any of the following actions for a WaterSIP Grant proposal once submitted, selected, and approved for funding?

Ever rejected funding: Yes No Failed to perform (cancelled) Yes No
 Been unable to complete the contracted scope within the specified funding period: Yes No

Project Title	Year Funded	Reason

Authorized Person's Name: Bevin Beaudet, P.E. Signature: <u><i>Bevin Beaudet</i></u> <i>must be signed by authorized individual</i> Title: Director, PBCWUD	Telephone Number: 561-493-6001 Fax Number: 561-493-6008 Email: bbeaudet@pbcwater.com
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PROJECT DATA AND CRITERIA SUMMARY

1. Please provide a brief synopsis of the Project. Indicate quantities of each hardware/technology item(s):	
Installation of twenty (20) automatic line-flushing devices, 9400WC Eclipse or equivalent, to reduce the amount of water used during routine fire hydrant flushing.	
Quantity of estimated water savings	6.24 million gallons per year (MGY)
Amount of funding requested	\$ 46,750
Total project cost	\$ 93,500
Cost Effectiveness (see question 8.)	\$ 1.91 /kgals (dollars per 1,000 gallons saved)
Proposed percent SFWMD funding (up to 50% or up to \$50,000, whichever is less)	50 %
Is the Applicant a REDI Community?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
If applicable, state any <i>environmental or community benefits</i> of this Project <i>other than reducing demand from a potable water source</i> . These other benefits could include water quality or habitat improvements, and/or benefiting a low-income, senior, or affordable housing community.	
The proposed project will provide a community benefit through the improvement of water quality in areas designated for installation of automatic line flushing devices while at the same time reducing the water necessary to manually perform the same hydrant flushing activity. Additionally, through the elimination of the labor hours needed to manually flush the fire hydrants, PBCWUD staff will be able to more effectively tackle other customer service responsibilities or complaints.	
If applicable, state how this Project showcases innovation using new technology or the method in which the Project is being implemented.	
2. Please provide the name(s) and contact information of the entity's project manager who will oversee the implementation of this Project. This should be the primary person for District personnel to contact and is not necessarily the Applicant's legal signing authority.	
Name: Tom Blumberg	I have thoroughly reviewed the WaterSIP FY2014 document.  _____ (Project Manager named in this subsection)
Email: twblumberg@pbcwater.com	
Phone: 561-493-6206	

STATEMENT OF WORK



SOUTH FLORIDA WATER MANAGEMENT DISTRICT FY2014 WATER SAVINGS INCENTIVE PROGRAM COOPERATIVE FUNDING STATEMENT OF WORK



Please review the Sample Application on the website before continuing.

Introduction and Background

3. Provide a brief overview of why this Project is needed.

Please include:

- A historical description of water use by the target group.
- Explain if the Project is consistent with the applicable local government comprehensive plan and/or utility water conservation program.
- Explain why the Project is being done.
- Describe how the Project relates to other ongoing or future projects.
- Introduce key terms or acronyms.
- A quantification of the benefits and potential water savings and other potential benefits.

Provide an Introduction and Background in the space provided below (maximum 1,900 characters, approximately two to four [2-4] paragraphs).

The Palm Beach County Water Utilities Department (PBCWUD) conducts routine weekly fire hydrant flushing on its potable distribution system to reduce water age in the system and to maintain and improve water quality. In addition, water quality issues increase when irrigation restrictions are in effect during water shortages.

PBCWUD currently utilizes in-house resources to conduct fire hydrant flushing through the manual opening and flowing of hydrants for a specific amount of time. Flushing is usually performed at the outer reaches of the water distribution system. PBCWUD estimates that the process of manually flushing those fire hydrants where automatic line flushers will be installed uses approximately 15.6 million gallons per year (MGY). Some of the major disadvantages of manual flushing are; excess water usage, intensive manpower demand, limited operable hours, and the creation of customer complaints.

The purpose of the proposed project is to reduce the amount of water used in flushing activities. PBCWUD proposes installing twenty (20) automatic flushing devices at specific dead-end water main locations to eliminate the need for manual flushing. The automatic line flushing devices will be programmed and installed at these locations to work, on average, 1 hour per week with flow of 150 gallons per minute resulting in flushing 180,000 gallons of water per week or 9.36 million gallon per year. The projected water savings using twenty automatic flushing devices is estimated to be 6.24 MGY.

PBCWUD previously embarked on a project to install automatic line flushers in problem areas, resulting in a demonstrated water savings. PBCWUD is committed to dedicating future funding for the continued installation of automatic line flushing devices on an annual basis as part of its capital improvement program and water conservation plan.

Objective

4. Clearly state the objective of this Project. What will this Project accomplish?

Please include:

- A brief statement of the project's objective.
- A brief project justification statement.

Provide a Justification/Objective Statement in the space below [maximum 500 characters].

PBCWUD will significantly reduce the amount of water currently used in manually flushing fire hydrants through the installation of automatic line flushing devices.

Although the project is considered a water conservation project, it will also serve to improve water quality issues in the affected areas and will lead to a reduction in resource levels currently committed to the manual flushing of fire hydrants.

Scope of Work

5. Provide a brief, general description of the proposed project.

Please include:

- Item(s) to be purchased/installed/distributed.
- Number of such items.
- Target group and its size.
- Location of this Project.

Provide a Scope of Work in the space provided below [maximum 1,000 characters].

PBCWUD will purchase 20 automatic water line flushing devices and install them at locations near the perimeter of the distribution system where water mains dead-end, such as cul-de-sacs and dead-end streets. The devices used will be 2" 9400WC Eclipse units or equivalent.

PBCWUD staff will program each new flushing device to allow water to flow for 60 minutes at a rate of 150 gallons per minute (gpm), with an estimated weekly flow of 180,000 gallons. The devices are expected to result in an estimated water savings of 6.24 MGY.

Work Breakdown Structure and Deliverables Schedule

6. Enter your Work Breakdown Structure in the space provided below [maximum 3,750 characters]. The Work Breakdown Structure should describe how the Project will be completed.

Your Work Breakdown Structure should include:

- The identification and description of the proposed project's methodology.
- A detailed description of each element (i.e., step, task, and/or phase).

Contact vendor for price quote

Submit requisition to the Palm Beach County Purchasing Department

Once the delivery order is received, Project Manager will place the order with vendor

Project Manager will designate specific zones for installation of the automatic line flushing devices. A Zone Manager will be responsible for overseeing the installation of the devices.

Specific installation sites within each zone will be determined during the procurement and delivery times assuming a 4 to 6 week process.

Upon delivery of material, each Zone Manager will be allocated material for installation.

Zone crews will install a 2" tapping saddle and corporation stop. The flusher will be installed with an appropriately sized concrete splash pad.

The automatic flushing timers will be set according to individual area flushing frequency needs.

All completed work will be inspected by the Project Manager.

Deliverables Schedule for FY2014
(Please provide a list of tasks to be completed in FY2014.)

Task No.	Deliverable(s)*	Expected Completion Date
1	Exhibit "C" – Status Report	December 31, 2013
2	Exhibit "C" – Status Report	March 31, 2014
3	Exhibit "C" – Status Report	June 30, 2014
4	Identify and Validate 20 Installation Sites	December 31, 2013
5	INITIAL PURCHASE OF AUTOMATIC LINE FLUSHERS	December 31, 2013
5	PURCHASE OF REMAINDER OF AUTOMATIC LINE FLUSHERS	April 1, 2014
7	INSTALLATION (To be updated in status reports)	Ongoing
8	Exhibit "D" – Final Project Summary Report / Final Reimbursement Package	August 29, 2014

*Note: Deliverables should be descriptive (e.g., description/number of items to be purchased/installed/distributed, the target group and its size, etc.) to help the reviewer understand what is being funded. Quarterly Status Reports are due within ten (10) days of due date.

QUANTITY OF POTABLE WATER SAVED AND CALCULATIONS



Please review the Sample Application Appendices 1-3 before continuing.

7. State the estimated water savings resulting from this Project and show how this estimate was calculated. Express estimated water savings in million gallons per year (MGY). Be as specific as your available data allows. Base your calculations on the minimum number of dwelling units affected (for residential projects) or devices installed (for non-residential projects) for this project. You must state any assumptions included in your calculations.

Be sure to review the example found on the webpage.

Note:

- 1) For example calculations of common water conservation projects, see Sample Application.
- 2) Persons per household data can be obtained from:
 - a. The U.S. Census at www.census.gov.
 - b. The local water/wastewater utility provider or city planning department.
 - c. The city's 10-Year Facility Work Plan.
 - d. Other, please cite the source.

20 automated flushers will be installed within PBCWUD drinking water service areas on proposed locations to improve water quality and conserve a significant amount of water.

Assumptions: On average each manual flush, which is normally done on weekly basis, takes about 30 minutes with average flow of 500 gpm resulting in flushing of 300,000 gallons of water per week or 15.6 million gallon per year. It is estimated that auto flushers will be programmed and installed at these locations to work, on average, 1 hours per week with flow of 150 gpm resulting in flushing 180,000 gallons of water per week or 9.36 million gallon per year. The net result of implementing of this proposal will be 6.24 million gallons of potable water saved.

Current Use: Flush rate of 500 gal/min x 30 min. x 4 flushes/month = 60,000 gal/month

For 20 locations: 60,000 x 20 x 12 months (48 weeks) = 14.4 million gallons

(NOTE: For 52 weeks, total flush will be 15.6 million gallons per year)

Efficiency Use: Flush rate of 150 gal/min x 60 min x 4 flushes/month = 36,000 gal/month

For 20 locations: 36,000 x 20 x 12 months (48 weeks) = 8.64 million gallons

(NOTE: For 52 weeks, total flush will be 9.36 million gallons per year)

Total Savings: 15.6 million gallons – 9.36 million gallons = 6.24 million gallons per year

COST EFFECTIVENESS CALCULATION

8. The Cost Effectiveness calculation allows all project types to be compared to each other. The Cost Effectiveness calculation considers the cost to implement the project, amortized at 2.85%, and the benefits of the project over the anticipated service life of the hardware and/or technology. Cost Effectiveness is expressed in \$/kgals (or dollars per 1,000 gallons saved). A Cost Effectiveness calculator has been created for you. If you did not download the WaterSIP Cost Effectiveness Calculator with this application you can access it via this [LINK](#). If you have difficulty accessing the calculator, you may contact Stacey Adams at sadams@sfwmd.gov or 561-682-2577 or Robert Wanvestraut at rwanvest@sfwmd.gov or 561-682-2054.

To use the calculator, enter the total project cost of the project, as listed on the Project Data and Criteria Summary sheet and the Project Cost Itemization table of this application, and the total number of gallons this project will save annually (in million gallons per year or MGY) as listed on the Project Data and Criteria Summary sheet. Enter administrative costs in the cost of the largest item if there are more than one hardware or technology-related components associated with this project. See the 'Examples' tab.

CE CALCULATOR ATTACHED TO APPLICATION

PROJECT COST AND FUNDING ITEMIZATION

9. Please enter itemized cost information into the table below.

Note: If some of the project work is being done "in-house" or "in-kind," please briefly describe.

Project Hardware/Technology Item	Quantity of Items or Rebates	Cost per Item or Rebate or Voucher	Installation Cost per Item	Total Cost for each Line
Automatic Potable Water Flush Device	20	2525.00	2150.00	4675.00
In-kind Services	Number of Hours/Items	Cost per Hour/Item		Total Cost for each line
Administrative (overhead/labor) 1*				
In-kind Contribution 2*				
In-kind Contribution 3*				
TOTAL (items above should equal the stated Total Project Cost)				93500.00

10. Please enter the following funding information below.

Note: See Sample Application for evidence of funding requirements.

Matching funds from other sources	Total \$ 0
Source(s) of Other Funds (only applies to non-Applicant funding)	Funding Level
Is the Applicant a Rural Economic Development Initiative (REDI) community?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Does the Applicant have cooperatively funded projects currently under the FY2013 WaterSIP?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

➤ If yes, provide the Contract/Purchase Order (PO) number(s), funding amount(s), source(s), and required completion date(s) for the other project(s):

Contract/PO Number	
Funding Amount	
Source(s)	
Completion Date(s)	

Contract/PO Number	
Funding Amount	
Source(s)	
Completion Date(s)	

- Proceed to the next page of this document -

SUPPLEMENTAL QUESTIONS

11. Is this a rebate or voucher program?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
<p>➤ If no, proceed to question 12.</p> <p>➤ If yes:</p> <p style="margin-left: 20px;">a) How many rebates or vouchers in total will be issued as per this project (within the current funding period (October 1, 2013–August 29, 2014))*?</p> <p style="margin-left: 20px;">b) What is the maximum number of rebates/vouchers that can be issued to a single Participant?</p> <p style="margin-left: 20px;">c) How many dwelling units or facilities will this program attempt to reach at a minimum as per this project (within the current funding period (October 1, 2013–August 29, 2014))*?</p> <p><i>Note:</i></p> <p>* Do not enter a range. The final reimbursement amount will be tied to this number.</p> <p>** This question assumes that all Participants accept the maximum number of allowable rebates/vouchers.</p>	
12. Will the project's Participants be eligible to receive more than one of any type of fixture or device, such as, but not limited to, a showerhead or faucet aerator?	Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
<p>➤ If no or not applicable, proceed to question 13.</p> <p>➤ If yes:</p> <p style="margin-left: 20px;">a) List those fixtures/devices:</p> <p style="margin-left: 20px;">b) How many dwelling units or facilities will this program attempt to reach at a minimum as per this project (within the current funding period (October 1, 2013–August 29, 2014))*?</p>	
13. Is the Applicant a public utility, municipality, or government agency?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<p>14. Identify the water source.</p> <p><input type="checkbox"/> Potable Water from a utility at risk for saltwater intrusion based on elevated chloride levels in monitoring wells or within a Restricted Allocation Area (Section 3.2.1 of the Water Use Basis of Review).</p> <p><input checked="" type="checkbox"/> Potable Water from a utility not at risk for saltwater intrusion.</p> <p><input type="checkbox"/> Potable, but not sure if the area is with a Restriction Allocation Area or at risk of saltwater intrusion (Specify the provider utility _____)</p> <p><input type="checkbox"/> Surficial well water in the service area of a utility at risk for saltwater intrusion based on elevated chloride levels in monitoring wells.</p> <p><input type="checkbox"/> Surficial well water in the service area of a utility not at risk for saltwater intrusion.</p> <p><input type="checkbox"/> Surficial well water, but unsure if at risk of saltwater intrusion (Specify the water body _____)</p> <p><input type="checkbox"/> Water from a canal or stormwater catchment area (such as a man-made lake within a housing development).</p> <p><input type="checkbox"/> Reclaimed water.</p> <p><input type="checkbox"/> Other (Specify)</p>	
<p>If Applicant is a public water supplier, please provide the Consumptive Use Permit number: CUP No. 50-00135-W</p>	

Check Yes or No (double click gray box and click checked under Default value)	Yes	No
15. Is the Project part of your institution/facility's conservation plan? <div style="text-align: right;">N/A <input type="checkbox"/></div>	<input type="checkbox"/>	<input type="checkbox"/>
16. The applicant understands that WaterSIP funds are only for expenses incurred or obligated during the funding period (October 1, 2013–August 29, 2014).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
17. WaterSIP is a reimbursement program. It is expected that the scope of the Project will be completed in its entirety within the funding period, regardless of the actual amount of funding awarded to the Applicant through the WaterSIP Program. There is no guarantee the Applicant will be awarded the amount requested. Does the Applicant have budgeted funds available to pay for the entire scope of the Project within the timeframe outlined in the Schedule of Tasks and Deliverables without funds from the WaterSIP Program? <i>Note: If you answer "No," the project is ineligible for funding consideration unless the Applicant is a REDI community.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
18. Is the Acknowledgement of Financial Commitment Form completed? <i>Note: If you answer "No," the project may be ineligible for funding consideration unless the Applicant is a REDI community.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
19. Will this project move forward independent of SFWMD funding? <i>Note: If you answer "No," the project is ineligible for funding consideration unless the Applicant is a REDI community.</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
20. The Applicant fully understands that if, for any reason, the project scope is not fulfilled to 100% completion as outlined in the Statement of Work, the District's funding amount will be reduced to match the original percentage of funding in the Purchase Order based on the initial project cost estimate, as presented in this Application.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
21. The Applicant also understands that if the project scope is achieved to 100% completion, as outlined in the Statement of Work and total actual project costs are below the estimated total project cost, the Recipient may be eligible to receive up to the full award amount, as long as the minimum 50% match is met of the actual total project cost is met by the Recipient.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ACKNOWLEDGEMENT OF FINANCIAL COMMITMENT



The Applicant's **legal signing authority** must sign this Acknowledgement and include it with the Application package.

The (Palm Beach County Water Utilities Department) is committed to provide 100% of the (\$93,500) funding needed for the full scope of the proposed FY2014 Water Savings Incentive Program (Installation of Water Line Flushing Devices).

I am an authorized representative of (Palm Beach County Water Utilities Department) to commit the full funding independent and irrespective of District-awarded funding assistance and the funds are included in the draft FY2014 Budget.

By Authorized Official: Bevin Beaudet

Printed Name: Bevin Beaudet

Title: Director, PBCWUD

Date: 9/12/13

SIGNATURE AUTHORITY CHECKLIST



The Applicant's **legal signing authority** must sign this checklist and include it with the Application package.

The legal signing authority of the Applicant understands the following:

- WaterSIP is a reimbursement program.
- The maximum reimbursement amount is up to 50% of the total actual purchase and/or installation cost of the Project, or up to \$50,000, whichever is less in total.
- The Applicant must provide sufficient funds to fully execute this project in its entirety as outlined in this proposal within the funding period (October 1, 2013 – August 29, 2014) before reimbursement funds can be collected.
- The Scope of Work for this Project is based on the level of funds that the Applicant can foreseeably commit to at this time.
- If budgeted funding for this Project is wholly or in part removed from an award Recipient's budget, they may withdraw their awarded project by 4:00 PM October 11, 2013 without incurring a Past Performance penalty.
- If the Applicant accepts a funding award, but fails to complete the scope of the Project, the Applicant will receive a Past Performance penalty, which will affect future applications for WaterSIP funding.
- Applicants that withdraw awarded projects after October 11, 2013, will receive a Past Performance penalty, which will affect future appeals for WaterSIP funding.
- The WaterSIP FY2014 Supplemental Document has been reviewed.

By Authorized Official: Bevin Beaudet

Printed Name: Bevin Beaudet

Title: Director, PBCWUD

Date: 9/12/13

Applicant Agency/City Name
Project Title

Palm Beach County Water Utilities Department
 Installation of Automatic Line Flushing Devices

Conservation Items	TOTAL Project Cost	Gals Saved Per Year (MGY)	Service Life (in years)	Cost Effective \$/Kgal
\$20	\$93,500	6.2	9	\$1.91
				\$
				\$
				\$
				\$
				\$
				\$
				\$
				\$
Totals				\$1.91

Notes:

- 1) Enter data only in **YELLOW** cells; blue cells are calculated for you.
- 2) Total Project Cost should match the amount listed on Project Data and Criteria Summary sheet and the Project Cost Itemization table in the application.
- 3) Gallons saved per year (in Million gallons per year) should match the amount listed on Project Data and Criteria Summary sheet in the application.
- 4) Administrative costs get embedded into the cost of the largest item.
- 5) For item service lives: See the table below.
- 6) Enter this Cost Effectiveness value on your Project Data and Criteria Summary in the application.

Item	Service life (Residential) in years	Service life (Commercial) in years
Faucet	15	15
Showerhead	8	8
Toilet	40	25
Urinal	-	25
Irrigation controller	5	5
Irrigation sprinkler heads	5	5
Rain/soil moisture sensor	5	5
Major appliances	11	20
Prerinse spray valve	-	5
Autoline flush device	-	9
Other		

If your conservation item is not listed, enter it in the "Other" cell.
 Provide documentation supporting the number of service years you enter.





Run Date 8/16/13

HD SUPPLY WATERWORKS, LTD.

Entered by: AV1

PALM BEACH CO BD OF CO COMMS
STOCK-039 RIVIERA
PO BOX 4036
WEST PALM BEACH FL 33402
Telephone: 561-355-3011
Fax: 561-355-3393

HDSWW - W PALM BEACH FL
1101 W 17th St
Riviera Beach FL 33404
Telephone: 561-848-4396
Fax: 561-845-7267

Attention: TOM

8/16/13 Bid ID: 3557216 KUPFERLE 9400 SERIES 08/16/2013

Page 1

Line	Quantity	Sell. Per	Description	Net Price	Extended Price
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PRICES FIRM FOR 30 DAYS FROM DATE OF QUOTATION.

50	1	EA	2" 9400WC ECLIPSE AUTOMATIC FLUSHING DEVICE	2,525.00	2,525.00
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STOCK IN RIVIERA BEACH -

Subtotal:	2,525.00
Tax:	.00
Bid Total:	2,525.00

Christopher Pettit

From: Tom W. Blumberg
Sent: Monday, September 09, 2013 11:10 AM
To: Christopher Pettit
Cc: Ali Bayat
Subject: Auto Flusher installation labor

Chris,

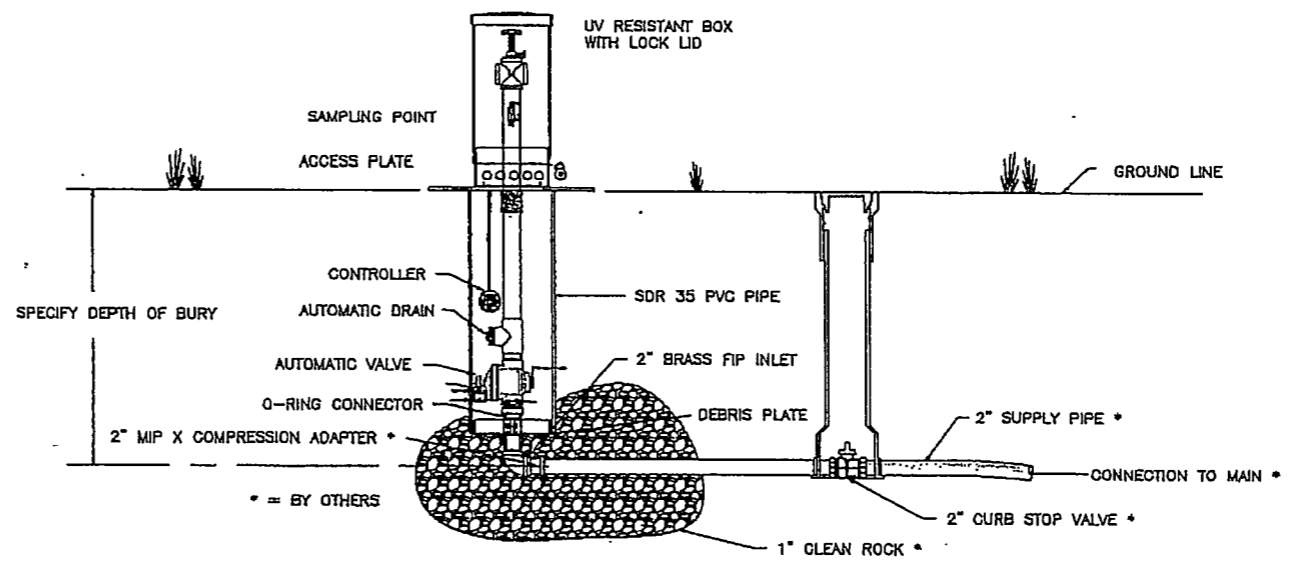
After speaking to the line crew chief, he expects it will take 30 man hours from start to finish per flushing valve installation. I have also included equipment needed (backhoe) and misc. fittings required. Here is the breakdown: 30 M.H @ \$35.00 hr = \$1050. Backhoe with operator 16hrs. @ \$50.00/hr = \$800.00. Misc. valves and fittings are \$300.00. The total for labor, equipment, and parts comes to \$2150.00 per AFV unit. If you need any further information, please feel free to give me a call.

Thanks

*Thomas Blumberg
Plant Superintendent
Palm Beach County Water Utilities
561-603-1793*

Best Water, Best Service, Best Environmental Stewardship

#9400 AUTOMATIC FLUSHING DEVICE



AUTOMATIC FLUSHING DEVICE SHALL HAVE A 2" BRASS FIP INLET, LEADING VERTICALLY INTO A 2" AUTOMATIC SOLENOID VALVE. AUTOMATIC SOLENOID VALVE SHALL HAVE A 150 PSI RATING. EACH UNIT SHALL BE FURNISHED WITH A STAND-ALONE VALVE CONTROLLER. VALVE CONTROLLER WILL NOT REQUIRE A SECOND HAND-HELD DEVICE FOR PROGRAMMING, MUST HAVE A MINIMUM OF 12 POSSIBLE FLUSHING CYCLES PER DAY AT UP TO 6 HOURS OF FLUSH TIME PER CYCLE, SHALL BE SUBMERSIBLE TO 12 FEET, OPERATE WITH A 9 VOLT BATTERY (COMPARTMENT HOLDS TWO BATTERIES) AND HAVE A DOUBLE VALVE, ALL BRASS SAMPLING POINT. REMOVAL OF THE 2" SOLENOID VALVE SHALL BE POSSIBLE VIA AN O-RING CONNECTOR LOCATED UNDER THE VALVE AFTER REMOVAL OF THE STAINLESS STEEL ACCESS PLATE. UNDERGROUND PARTS SHALL BE HOUSED IN A PVC ENCLOSURE AND EACH UNIT SHALL BE SELF-DRAINING, NON FREEZING. ALL ABOVE-GROUND COMPONENTS SHALL BE CONTAINED WITHIN A UV-RESISTANT LOCKING DOMED COVER, AS MANUFACTURED BY KUPFERLY FOUNDRY COMPANY. MODEL #9400 ST. LOUIS, MO. 1-800-231-3990, OR APPROVED EQUAL.

Note: Flush waterlines free of debris before installation

NO	DATE	REVISION

THIS DRAWING IS THE PROPERTY OF THE KUPFERLY FOUNDRY COMPANY. IT IS NOT TO BE USED OR DUPLICATED WITHOUT PERMISSION OF THE OWNER.

DRAWN	F.M.
APPROVED	10-19-12
DATE	
DRAWN	HAT'L

ECLIPSE
Since 1927

KUPFERLY FOUNDRY COMPANY

2511 NORTH 9TH STREET, ST. LOUIS, MO 63102
314-231-5725 800-231-3990 FAX 314-231-2820
<http://www.kycdn.com>

PART NO. #9400 AUTOMATIC FLUSHER

**BOARD OF COUNTY COMMISSIONERS
 PALM BEACH COUNTY, FLORIDA
 BUDGET: AMENDMENT**

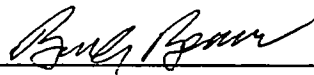
FUND 4001: Water Utilities Department Operations and Maintenance Fund

-Use this form for items not anticipated in the budget

Account		Original Budget	Current Budget	Increase	Decrease	Adjusted Budget	Encumbered As of 10/31/2013	Remaining Balance
Number	Name							
<u>Capital Improvement Fund</u>								
<u>Receipts and Revenues</u>								
720-2556-3739	Grants Physical Environment	0	0	23,375	0	23,375		
Total receipts and revenues		<u>134,009,355</u>	<u>134,009,355</u>	<u>23,375</u>	<u>0</u>	<u>134,032,730</u>		
<u>Expenditures and Reserves</u>								
720-2556-4615	Maintenance	0	0	23,375	0	23,375	0	23,375
Total expenditures and reserves		<u>134,009,355</u>	<u>134,009,355</u>	<u>23,375</u>	<u>0</u>	<u>134,032,730</u>		

Water Utilities Department
 Initiating Department/Division
 Administration/Budget Department Approval
 OFMB and Budget Department - Posted

Signatures Date

 11/25/13

By Board of County Commissioners
 At Meeting of _____

Deputy Clerk to the
 Board of County Commissioners