COOPERATIVE FUNDING PROGRAM
ALTERNATIVE WATER SUPPLY PROJECT APPLICATION

Applications are limited to 25 pages including figures, Reduction of Matching Funds (if applicable), and the Acknowledgment letter. Application submittals must uploaded at http://www.sfwmd.gov/coopfunding by **May 20, 2016 at 6:00 PM**. Prior to completing this Application, it is recommended you read the CFP Guidelines. This application is for projects which will be constructed between October 1, 2016 and September 30, 2018.

PROJECT SUMMARY

Project Name: City of Delray Beach Area 12C Reclaimed Water System	
Applicant: City of Delray Beach	
Authorized Representative: Victor Majtenyi	**Project Manager (if different):** Enter text.
Address: 434 South Swinton Avenue	**Address:** Enter text.
City/Zip: Delray Beach/33444	**City/Zip:** Enter text.
Telephone: 561-243-7328	**Telephone:** Enter text.
Email: Majtenyi@mydelraybeach.com	**Email:** Enter text.
Federal ID Number: 59-6000308	**Project Latitude / Longitude:** 26° 26' 38" N/ 80° 03' 46" W
Construction Cost (10/1/16-9/30/18)**:** $1,182,611.17	**Total Project Cost** (10/1/16-9/30/18) $1,486,583.17 N/A ☐
Requested Funding: $591,305.58	**Local Funding:** $591,305.59
SFWMD Planning Region: Lower East Coast	**County:** Palm Beach
AWS Project Type (reclaimed, brackish, ASR, etc.): Reclaimed	
Multi-year project?: Yes ☒ No ☐	
Phase Completion Date (10/1/16-9/30/18)**:** 9-30-18	**Total Project Completion Date (All Phases):** 8-1-2025
Phase Capacity in MGD: 0.163	**Total Capacity in MGD:** 5.1
Are there other District programs or other agencies contributing funding to this project? Yes ☐ No ☒ If yes, source(s): Enter text. If yes, amount(s): Enter text.	
Does any SFWMD employee, Governing Board member, contractor, or other affiliate of the Applicant have a financial interest in this project, the property associated with this project or with any party that may profit financially from this project? Yes ☐ No ☒ If yes, list the parties and interests: Enter text.	
Is the project part of your institution's capital/facilities work program? Yes ☒ No ☐	
This is a reimbursement program with the entire project scope expected to be completed within the funding period, regardless of amount awarded. There is no guarantee the Applicant will be awarded the amount requested. Are budgeted funds available to pay for the entire scope of the project? Yes ☒ No ☐	
Does the applicant understand that if for any reason, the project scope is not 100% completed as outlined in the statement of work, the funding amount may be reduced to match the original percentage of funding in the contract that was based on the estimated construction cost provided in the application? Yes ☒ No ☐	
Does the applicant understand that funds are only for expenses incurred or obligated during the funding period (October 1, 2016 – September 30, 2018)? Yes ☒ No ☐	

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Is the Applicant a REDI Community? Yes ☐ No ☒ N/A ☐

Has this project received previous SFWMD funding? Yes ☒ No ☐
If yes, provide the following information:

Year Awarded	Contract Number	Amount Awarded	Amount Spent
2014	4600002967	$100,000	$100,000
2013	4600002741	$170,000	$170,000
2011	4600002307	$210,910	$130,600
2009	4600001677	$1,118,000	$832,900

SHORT DESCRIPTION

In the box below, provide two to three sentences describing the project for which funding is being requested.

Construction of reclaimed water distribution system consisting of 3,015 LF of 4-inch, 2,120 LF of 8-inch and 2,500 LF of 10-inch reclaimed water piping and associated valves, piping appurtenances, roadway repair and general conditions to serve the Area 12C, reclaimed water service areas.

PROJECT FIGURES

Note: Each figure should fit on a sheet of 8.5” × 11" paper and include a North arrow.

Figure 1: Project Location. City or town map clearly showing the project location in relation to the nearest major street or road intersection.

See Figure 1 map attached.

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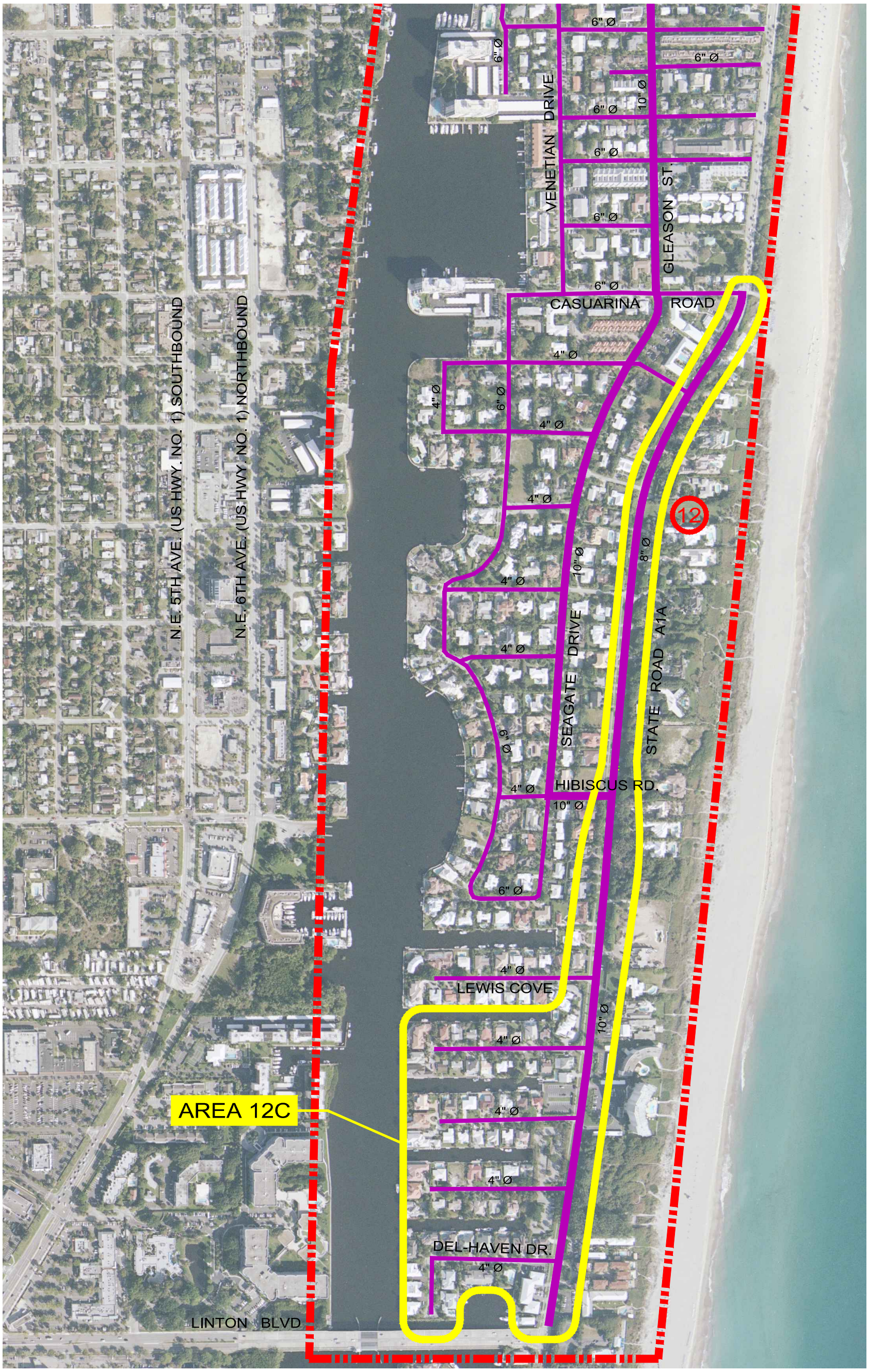
Figure 2: Project Details. Project-level map showing sufficient detail depicting the proposed project (e.g., show a proposed pipeline between two intersections bounding the project; show a plant layout with the proposed project phase components highlighted, such as storage/chlorination tank, etc.).

See Figure 1 map attached.



LEGEND

- SERVICE AREA
- EXIST. RECLAIMED WATER LINE & SIZE
- PROPOSED RECLAIMED WATER TRANSMISSION LINE & SIZE
- PROPOSED RECLAIMED WATER MAIN & SIZE

FIGURE 1

CITY OF DELRAY BEACH

AREA 12C RECLAIMED WATER PROJECT

MATHEWS CONSULTING
CIVIL ENGINEERS

SCALE:
1"=500'

SCALE:
1" = 500'
500 0 500

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PROJECT DETAILS

Statement of Work

This section will be used to create the contract document if the project is selected for funding. Provide detail on your project as follows:

A. Introduction/Background (4 – 6 paragraphs)

The City of Delray Beach has established alternative water resource goals in conjunction with renewal of the City's Water Treatment Plant SFWMD Water Use Permit. Implementation of a reclaimed water system will reduce the demands on both the surficial aquifer and on the City's potable water system.

The City's reclaimed Water Master Plan completed in November 2003 identifies "Area 12C" as the ninth phase of the City's total reclaimed water system, which will provide up to 0.163 mgd of additional reclaimed water use for this phase. The City plans to implement other phases of the Master Plan on a continual basis over the next 9 years, and the total program will provide up to 5.1 mgd of reclaimed water available for the entire system. The Reclaimed Water Master Plan is consistent with the City's comprehensive plan, which specifically encourages more reuse of effluent from the wastewater treatment plant to reduce the demands on the potable water system.

B. Objectives (1 – 2 paragraphs)

The objective of this project is to implement the ninth phase of the reclaimed water system within the City of Delray Beach and to promote up to 0.163 mgd of additional reclaimed water use.

C. Detailed Scope of Work for FY2017-2018 (3 – 6 paragraphs)

This project consists of construction of reclaimed water distribution system consisting of 3,015 LF of 4-inch, 2,120 LF of 8-inch and 2,500 LF of 10-inch reclaimed water piping and associated valves, piping appurtenances, roadway repair and general conditions to serve the Area 12C, reclaimed water service area.

This project will tie distribution mains into the existing 10-inch reclaimed water transmission piping along Hibiscus Road and 6-inch distribution piping along Casuarina Road, which was previously installed under the Area 12B project. Distribution mains will extend along the streets of Brooks Lane, White Drive, Rhodes-Villa Avenue and Del-Haven Drive. A connection point will be provided for future phases.

Table 1 – Project Breakdown

Fiscal Year	FY2017[1]	FY2018[1]	FY2019 and Beyond[1]	Project Total
Project Phase (e.g., Phase 1/I, etc.)	Enter text.	Area 12C Reclaimed Water System	Areas 6, 8, 10 and 14 Reclaimed Water Systems.	Not applicable
Major deliverables (brief description of major tasks to be completed)	Enter text.	Install approximately 2,500 LF of 10", 2,120 LF of 8", and 3,015 LF of 4" reclaimed water pipe	Install approximately 3,900 LF of 18", 15,800 LF of 12", 4,700 LF of 10", 9,150 LF of 8", 3,600 LF of 6", and 200 LF of 4"	Not applicable

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			reclaimed water pipe	
Construction Cost ($)	$ Enter text.	$ 1,182,611.17	$ 5,390,000	$ 6,572,611.17
Planning/Design/Engineering/Other Costs ($)	$ Enter text.	$ 303,972.00	$ 730,000	$ 1,033,972
Total Cost ($)	$ Enter text.	$ 1,486,583.17	$ 6,120,000	$ 7,606,583.17
Capacity Made Available in MGD[2]	Enter text.	0.163	1.809	1.972

[1]Include water made available only in year project becomes operational.

Table 2 – Deliverables Schedule

Task No.	Deliverable(s) *(add lines as needed)*	Expected Completion Date	Construction Cost ($)
1	Electronic submittal of final project bid amount and/or vendor estimates for all tasks to be completed.	Upon contract execution	N/A
2	Exhibit "C" – Status Report	December 31, 2016	N/A
3	Exhibit "C" – Status Report	March 31, 2017	N/A
4	Exhibit "C" – Status Report	June 30, 2017	N/A
5	Exhibit "C" – Status Report	September 30, 2017	N/A
6	Construct approximately 2,500 linear feet of 10-inch diameter pipeline between Hibiscus Road and Del-Haven Drive, including all valves, fittings, piping appurtenances and restoration / Reimbursement Request Package.	Upon Task Completion	$424,726.64
7	Construct approximately 2,120 linear feet of 8-inch diameter pipeline between Hibiscus Road and Casuarina Road, including all valves, fittings, piping appurtenances and restoration / Reimbursement Request Package.	Upon Task Completion	$334,451.64
8	Construct approximately 3,015 linear feet of 4-inch diameter pipeline on Brooks Lane, White Drive, Rhodes-Villa Avenue and Del-Haven Drive, including all valves, fittings, piping appurtenances and restoration / Reimbursement Request Package.	Upon Task Completion	$423,432.89
9	Exhibit "D" – Final Project Summary Report / Final Reimbursement Package	August 31, 2018	N/A
		Total[2]	$1,182,611.17

[2]Total deliverable costs should match the information in **Table 1** and **Part C** (Detailed Scope of Work) above. Deliverables should be descriptive (e.g. number and size of pumps, length, diameter and location of pipelines, etc.) to identify what work is being completed and funding requested. Status Reports are due within ten (10) days of due date. See Sample Application at www.sfwmd.gov/coopfunding.

PROJECT BACKGROUND AND SUPPORTING INFORMATION

Please clearly and briefly answer the following questions and provide supporting information.

Has the project design and bid drawings been completed? Yes ☐ No ☒
If yes, date: Enter text.
If no, anticipated date: March 31, 2017

Has the contractor been selected? Yes ☐ No ☒
If no, when: June 30, 2017

COOPERATIVE FUNDING PROGRAM
ALTERNATIVE WATER SUPPLY PROJECT APPLICATION

Have all land purchases, agreements, right-of-ways, etc. been executed? Yes ☒ No ☐
If no, explain: N/A

Have all other necessary items to start construction been completed? Yes ☐ No ☒
If no, explain: The project is scheduled to bid between April 2017 and June 2017. The contractor will be given notice to proceed prior to July 1, 2017.

List all relevant permits required to start or continue construction in **Table 3** below.

Table 3 – Permits

Agency	Permit No.	Permit Type (Water/WW, ERP, CUP, Building)	Permit Obtained?		Permit Date (expected date if not obtained yet)
			Yes	No	
NONE REQUIRED	Enter text.	Enter text.	Enter text.	Enter text.	Enter text.
Enter text.	Enter text.	Enter text.	Enter text.	Enter text.	Enter text.
Enter text.	Enter text.	Enter text.	Enter text.	Enter text.	Enter text.
Enter text.	Enter text.	Enter text.	Enter text.	Enter text.	Enter text.
Enter text.	Enter text.	Enter text.	Enter text.	Enter text.	Enter text.

1. **If applicable, provide the name of the related project in the Water Supply Plan (WSP) associated with the proposed work. Projects can be found in the relevant WSP. If the project is not included in a WSP, indicate if it's included in the Water Supply Facilities Work Plan and/or Capital Improvement Schedule in the applicable local government's Comprehensive Plan:**

   Reclaimed Water Area 12C (in the City of Delray Beach 10-year Water Supply Facilities Work Plan, February 2015)

   Name of Water Supply Plan Project Title or Local Government Project Title

2. **Please address the following factors described in Section 373.707, F.S. (alternative water supply development):**

   a. **Describe how the project provides substantial environmental benefits by preventing or limiting adverse water resource impacts.**
   Implementation of a reclaimed water system in the City of Delray Beach offers many significant and lasting benefits. First and foremost, the reclaimed water system will reduce the demands on both the Surficial Aquifer and on the City's potable water system. Secondly, the reclaimed water system will reduce the quantity of effluent discharged to the Atlantic Ocean via the South Central Regional Wastewater Treatment Plant (SCRWWTP) ocean outfall. There are long-term financial benefits associated with the project as well. Water used for reclaimed water irrigation results in an equal amount of water not requiring treatment at the City's water treatment plant, at a treatment cost savings rate of approximately $0.43/1,000 gallons.

   b. **Describe how the project reduces competition for water supplies.**
   The project fulfills water resource goals of the City's SFWMD Water Use Permit. Additionally, the project reduces dependence on a traditional water source (Surficial Aquifer) identified by SFWMD as sources of limited availability, and reduces competition with other water users for the same source. The Project also increases the efficient use of reclaimed water as a source, and from a regional perspective, contributes to the use of reclaimed water where it is currently underutilized. This project facilitates Surficial aquifer protection, and provides an alternative water supply that is consistently available year-round.

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c. **Identify the traditional source being replaced and/or any minimum flow, level, or reservation the alternative source utilized that this project is helping to implement. Explain.**
The traditional water source being replaced is the Surficial Aquifer. By supplying reclaimed water for irrigation, it replaces/reduces the need for water withdraws from the Surficial Aquifer.

d. **If the project is going to be implemented by a consumptive use permittee that has achieved the targets contained in a goal-based water conservation program approved pursuant to Section 373.227 F.S., please provide details. If not, briefly describe your conservation program.**
The City implements many water conservation measures within its service area, including implementation and enforcement of a Xeriscape Ordinance, partnering with the District to implement a Water Conservation Hotel and Motel Program initiative throughout the City, and water rate structure that promotes water conservation.

e. **Describe the quantity of water supplied by the project as compared to its construction cost. Provide a calculation showing the average annual daily quantity of water supplied by the project (expressed in millions of gallons of water), divided by the annualized capital cost of the project. If the project will not be used continuously, please provide the annual amount of water that will be supplied by the project. An Annualized Capital Cost calculator has been created for you and can be downloaded via this LINK.**
The annual average daily water supplied by this project is 0.163 mgd. Using the total project cost of $1,182.611.17 and a project life of 30 years, the annualized capital cost for this project is $.99 per 1,000 gallons (using the SFWMD calculator).

f. **Is the construction and delivery to end users of reclaimed water a major component of the project? What portion of the reclaimed water will offset the existing use potable use?**
Yes, the delivery of reclaimed water to end users is a major component of the project. The City's total water producing capacity is 26.0 mgd. This phase of the project (0.163 mgd) represents 0.63% of the potable water system capacity. The total project to date including this project (3.856 mgd) represents 14.8% of the potable water system capacity.

g. **Is the project going to be implemented by a multi-jurisdictional water supply entity or regional water supply authority? If yes, please provide name of entity.**
Yes. This project is part of the South Central Regional Wastewater Treatment Plant (SCRWWTP) Regional Reclaimed Water System which serves both the City of Delray Beach and the City of Boynton Beach.

h. **Does the project implement reuse that assists in the elimination of domestic wastewater ocean outfalls, as provided in Section 403.086(9), F.S.?**
Yes. This project helps to eliminate the amount of wastewater effluent discharged through the South Central Regional Wastewater Treatment Plant ocean outfall during emergency conditions.

i. **Has the county or municipality, or the multiple counties or municipalities, in which the project is located, implemented a high-water recharge protection tax assessment program, as provided in Section 193.625, F.S.?**
No

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j. **Is this project part of a plan to implement two or more alternative water supply projects, all of which will be operated to produce water at a uniform rate for the participants in a multi-jurisdictional water supply entity or regional water supply authority? If yes, describe the plan and its goals.**
The SCRWWTP Regional Reclaimed Water System goal is to provide 100% reclaimed water treatment capacity and up to 100% reclaimed water use in the distribution systems serving the City of Delray Beach and the City of Boynton Beach.

This project provides transmission and distribution system to reclaimed water users that will help utilize the 100% reclaimed water produced at the treatment plant.

k. **Identify the source(s) and percentage of project costs to be funded by the water supplier or water user. List any other funds being sought and the expected date of approval.**
The City proposes to fund 50% of the project, with 50% cost share from SFWMD. The City is not a REDI community. No other grants are being sought at this time related to this project.

l. **Does the project proposal include sufficient preliminary planning and engineering to demonstrate that the project can reasonably be implemented within the timeframes provided in the regional water supply plan? Is this project a subsequent phase of an AWS project underway?**
Yes, sufficient preliminary planning and engineering has been conducted for reasonable assurances that the project will be implemented within the time frames provided. A copy of the City's Capital Improvement Schedule which includes the Area 12C project can be provided upon request. This project is the ninth phase of the City's overall Reclaimed Water Program, and is subsequent to the eighth phase, Area 12B, which is currently under construction.

m. **For local government utilities: Describe whether and in what percentage the utility is transferring water supply system revenues to the local government general fund in excess of reimbursements for services received from the general fund, including direct and indirect costs and legitimate payments in lieu of taxes.**
The City maintains a Capital Improvement Program for various utility projects, including reclaimed water projects. A copy of the City's CIP program identifying the Area 12C Reclaimed Water Project can be provided upon request.

n. **Indicate the percentage of the total water-producing capacity of the system that this project will provide.**
This phase of the project will increase the capacity of the reclaimed water system by 0.163 mgd. The existing capacity of the system is 3.118 mgd. This phase will increase the capacity of the system by 5.2%.

FOR REUSE PROJECTS

3. **Pursuant to Section 373.707(9) (a-d), F.S. please show that reclaimed water made available through your project is metered for all uses, and that rate structures are implemented based on actual use of reclaimed water. Also, verify that education programs are in place to inform the public about water issues, water conservation, and the importance and proper use of reclaimed water.**
The City of Delray Beach hereby confirms that reclaimed water use is metered at each user, that the reclaimed water rate structure is based on actual use of reclaimed water (e.g. $/1000 gallons).

The City maintains education programs to inform the public about water issues, water conservation and the importance of proper use of reclaimed water. Education programs include, but are not limited to:

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ALTERNATIVE WATER SUPPLY PROJECT APPLICATION

- Public meetings specifically addressing the reclaimed water program
- PowerPoint presentations for the reclaimed water program
- Reclaimed water brochures
- Water conservation brochures

4. In the table below, list the anticipated reclaimed water users that will connect to the proposed reclaimed water project.

Table 4 – Reclaimed Water Users

Name *(add lines as needed)*	**User Demand (MGD)**	**Has an agreement been executed? (Y/N)**	**Estimated Connection Date**
Area 12C residential customers	0.163	N*	8-31-18
*The City maintains a Reclaimed Water Ordinance in lieu of Agreements.	Enter text.	Enter text.	Enter text.
**Includes existing, proposed and future phases.	Enter text.	Enter text.	Enter text.
Enter text.	Enter text.	Enter text.	Enter text.
Enter text.	Enter text.	Enter text.	Enter text.
Total User Demand	0.163	N/A	N/A
Proposed Project Capacity	5.1 Total**	N/A	N/A

SUBMITTAL CHECKLIST

☒ The Acknowledgment Form, on Applicant letterhead, has been completed and notarized and uploaded as a pdf

☒ Project maps have been included in the application or uploaded separately

☒ Cost calculations, as requested in 2e, have been included in the application

☐ If applicable, has the Reduction of Matching Funds been completed (on letterhead) and uploaded/attached as a pdf?

Cooperative Funding Program
Alternative Water Supply
Annualized Capital Cost Calculator

Applicant Agency/City Name	City of Delray Beach
Project Title	Reclaimed Water Distribution System 12C

AWS Project Type	Total Phase Project Cost	Phase Capacity (MGD)	Service Life (in years)	Annualized Capital Cost ($/kgal)
Reclaimed Distribution System Expansion	$1,182,611	0.2	30	$0.99
				$0.00
				$0.00
				$0.00
				$0.00
				$0.99

Discount Rate	2.85%	(Default value)

Alternative Water Supply Notes:

1) Enter data only in YELLOW cells; blue cells are calculated for you.
2) Total Phase Project Cost should match the amount listed in the Project Summary (page 1) and Table 1 - Project Breakdown
3) Phase Capacity (MGD) listed in the Project Summary (page 1) and Table 1.
4) For service life, see the table below.
5) Enter this Cost Effectiveness information under question 2 (e).

Item	Service life (Commercial) in years
All AWS projects will assume a service life of 30 years for the annualized capital cost calculation	30

CITY OF DELRAY BEACH

DELRAY BEACH FLORIDA
All-America City
1993
2001

ENVIRONMENTAL
SERVICES DEPARTMENT

434 SOUTH SWINTON AVENUE • DELRAY BEACH, FLORIDA 33444
(561) 243-7336 • FAX (561) 243-7060
mydelraybeach.com

ACKNOWLEDGMENT

Before me, the undersigned authority, personally appeared _____, (Authorized Representative of the project owner) this _____ day of _____, 2016 who, first being duly sworn, as required by law, hereby acknowledges:

1. The statements contained in this project information package are true, correct and complete to the best of his/her knowledge and that the undersigned has the authority from the project owner to make the representations contained herein.
2. The undersigned represents the described deliverables for this phase of the project will be completed and invoiced no later than September 15, 2018.
3. The undersigned represents that the project owner intends to begin construction of the project by this 1st day of July, in the year 2017.
4. The undersigned represents that the project owner understands the project contract expiration is September 30, 2018, and further understands that if the project is not completed by that date, the South Florida Water Management District reserves the right to rescind funding.

STATE OF Florida

COUNTY OF Palm Beach

Donald B. Cooper
Project Owner's Representative

Donald B. Cooper, City Manager
Print Name

SWORN TO and subscribed before me 6th day of MAY, 2016.

Such person(s) (Notary Public must check applicable box):

[X] is/are personally known to me.

[ ] produced a current driver license(s).

[ ] produced as identification: _____.

(NOTARY PUBLIC SEAL)

SHONA M. SMITH
MY COMMISSION EXPIRES
July 29, 2019
#FF 904801
Bonded thru Troy Fain - Insurance
NOTARY PUBLIC, STATE OF FLORIDA

Shona M. Smith
Notary Public