



City of Delray Beach

Utilities Department

M E M O R A N D U M

www.mydelraybeach.com

TO: Jennifer Alvarez, Interim City Manager

THROUGH: Hassan Hadjimiry, P.E., Director of Utilities

FROM: Alicia Magloire, Water Resources/Environmental Affairs Administrator

DATE: July 17, 2020

SUBJECT: South Florida Water Management Grant Funding
FY 2020-21 Application Period

Staff is requesting authorization to apply and electronically submit for one (1) grant funding opportunity through the South Florida Water Management District (SFWMD), which has a submittal deadline of close of business, Friday, July 31, 2020.

Qualifying projects must meet criteria for alternative water supply (AWS) or water conservation efforts. From past experience, projects related to the expansion of our reclaimed water system would qualify. The grant may offer up to 50% matching supplemental funding in the form of reimbursements, after the project's completion.

On July 6, 2020 the SFWMD issued a solicitation for accepting applications through July 31, 2020 for cost-share projects to develop alternative water supply projects and water conservation projects. This process is part of the State of Florida's efforts to identify and implement cost-effective strategies to protect the state's water resources while meeting Florida's water needs. Partnering with local governments and other entities for implementation of water conservation projects and development of alternative water projects is an important and effective way to help accomplish this goal.

Governor Ron DeSantis and the Florida Legislature approved \$40 million in funding for developing water supply and water resource development projects, and SFWMD is requesting applications for funding consideration for alternative water supply and water conservation projects within the District's 16-county service area.

The request for application submittal from SFWMD (issued on July 6, 2020) was after the window of the City's last commission meeting and the deadline for submittal of applications is July 31, 2020, which occurs before the next available City Commission meeting.

Staff is seeking permission as follows:

- 1) To submit the following eligible projects by the close of business, Friday, July 31, 2020 deadline for consideration by the SFWMD:

- City of Delray Beach Reclaimed Water Main Construction Area 10 – Phase 2

Project Total Cost: \$1,850,470

Requested State Funding: \$841,123

The SFWMD is only accepting online application submittals which need to be uploaded to their website by 4 PM July 31, 2020, and

- 2) Your permission to bring this for retroactive approval at the next available City commission meeting, August 18, 2020.

Thank you in advance for your consideration of this request.



Approved



Not Approved



Jennifer Alvarez, Interim City Manager

7/24/20
Date

Jennifer Alvarez, Interim City Manager

Date

STATE OF FLORIDA FUNDING CONSIDERATION ALTERNATIVE WATER SUPPLY PROJECT APPLICATION

Applications are limited to 25 pages and all submittals must be uploaded at <https://www.sfwmd.gov/doing-business-with-us/coop-funding> by **July 31, 2020 at 4:00 PM**.

PROJECT SUMMARY

Project Name: City of Delray Beach Reclaimed Water Main Construction in Area 10 Phase 2

Applicant: City of Delray Beach

Authorized Representative: Alicia Magloire

Address: 434 South Swinton Avenue

City/Zip: Delray Beach/33444

Telephone: 561-243-7000 Ext 7177

Email: magloirea@mydelraybeach.com

Project Manager (if different): Enter text.

Address: Enter text.

City/Zip: Enter text.

Telephone: Enter text.

Email: Enter text.

Federal ID Number: 59-6000308

Project Latitude (decimal degrees): 26°27'35.42"N

Project Longitude (decimal degrees): 80° 4'19.33"W

Phase Construction Cost (\$): 1,850,470

Requested State Funding (\$): 841,123

Third-Party Match Funding (\$): N/A

Total Capital Cost (\$): 1,682,245 N/A ☐

Applicant's Match Funding (\$): 1,850,470

State Appropriation Funding (\$): N/A

SFWMD Planning Region: Lower East Coast

County: Palm Beach

AWS Project Type (reclaimed, brackish, ASR, etc.): Reclaimed

Multi-year Project? Yes ☐ No ☒

Anticipated Construction Start Date: June 2021

Phase Capacity (mgd) (within 2 years): 0.116

Storage Capacity (mg): N/A

Anticipated Completion Date: September 2021

Total Capacity (mgd) (upon completion): 0.116

Distribution Capacity (mgd): 0.116

Are other agencies contributing funding to this project? Yes ☐ No ☒

If yes, source(s): Enter text.

If yes, amount(s): Enter text.

Does any 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 State of Florida 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 applicable expenses incurred or obligated during the funding period? Yes ☒ No ☐

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

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Has this project received previous SFWMD or State funding? Yes ☒ No ☐

If yes, provide the following information:

Year Awarded	Contract Number	Amount Awarded	Amount Spent
2019	4600004144	\$450,000	Enter text.
2016	4600003488	\$400,000	\$400,000
2014	4600002967	\$100,000	\$100,000
2013	4600002741	\$170,000	\$170,000

SHORT DESCRIPTION

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

The proposed reclaimed water main will be 12-inches along SE 1st Ave from SE 4th Street to NW 2nd Street and branch of 6-inches main along side streets SE 1st Street and NE 1st Street jogging northbound to NE 2nd Ave. The work covered under this project is for performing all operations to construction approximately 5,921 linear feet of reclaimed water system improvements.

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.

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.

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 (up to 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 Update completed in December 2016 identifies "Area 10" as the tenth project of the City's total reclaimed water system, which will provide up to 0.116 mgd of additional reclaimed water use for this project. The City plans to implement other projects identified in the Master Plan Update on a continual basis over the next 8 years, and the total program will provide up to 4.8 mgd of reclaimed water available for the entire system.

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The Reclaimed Water Master Plan Update 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 project of the reclaimed water system within the City of Delray Beach and to promote up to 0.116 mgd of additional reclaimed water use.

C. Detailed Scope of Work (up to 6 paragraphs)

Project to include reclaimed water main route survey, subsurface utility engineering, design, permitting, construction documents, bidding coordination, public outreach and limited construction administration support. Attached is a figure that shows the Reclaimed "Area 10" and proposed pipe sizing and locations, consisting of approximately 5,921 linear feet of main. All of the pipe in light pink is in area 10, the green pipe North of Atlantic will be installed this year and to be valved & capped for connection to this project.

This is a reclaimed water main project only and minimizing impacts to other infrastructure is a priority, therefore directional drilling is preferable where possible. The two 6" water mains (NW 1st St and SE 1st Street) are to pick-up the City Hall, Community Center, Tennis Courts and Courthouse, Library and Police station and will include connection to those existing irrigation systems.

Table 1 – Project Breakdown

Fiscal Year	FY21	FY22	FY23	FY24 and Beyond	Project Total
Project Phase (e.g., Phase 1/3, etc.)	Area 10 Reclaimed Water System	Enter text.	Enter text.	Enter text.	Not applicable
Major Deliverables (brief description)	Install pipes, valves and blow offs	Enter text.	Enter text.	Enter text.	Not applicable
Construction Cost (\$)	\$ 1,682,245	\$ Enter text.	\$ Enter text.	\$ Enter text.	\$ Enter text.
Planning/Design/Engineering/Other Costs (\$)	\$ 168,225	\$ Enter text.	\$ Enter text.	\$ Enter text.	\$ Enter text.
Total Cost (\$)	\$ 1,850,470	\$ Enter text.	\$ Enter text.	\$ Enter text.	\$ Enter text.
Capacity Water Made Available (mgd) ¹	0.116	Enter text.	Enter text.	Enter text.	Enter text.

¹Include capacity water made available only in the year the project becomes operational.

Table 2 – Deliverables Schedule

Task No.	Deliverable(s) (List major tasks to be completed – 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	Construction, engineering and inspection services and project certification completion	Upon Task Completion	168,225.00
3	Mobilization/Demobilization and General Conditions	Upon Task Completion	27,000.00
4	Maintenance of Traffic	Upon Task Completion	15,000.00
5	As-Built Drawings	Upon Task Completion	15,000.00
6	Project Identification Sign	Upon Task Completion	1,000.00

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7	NPDES Compliance/Erosion Control	Upon Task Completion	4,000.00
8	Video Allowance	Upon Task Completion	1,500.00
9	Florida Power & Light Allowance	Upon Task Completion	9,000.00
10	Unforeseen Condition Allowance	Upon Task Completion	90,000.00
11	Clearing & Grubbing	Upon Task Completion	9,000.00
12	City Street Open-Cut Trench Pavement Restoration	Upon Task Completion	11,234.00
13	Paver Restoration	Upon Task Completion	1,080.00
14	Curb and Gutter All Types	Upon Task Completion	5,250.00
15	Sod and Roadside Restoration	Upon Task Completion	5,000.00
16	6" HDPE RWM Directional Drill	Upon Task Completion	92,800.00
17	12" HDPE RWM Directional Drill	Upon Task Completion	1,142,750.00
18	6" GV w/CAP END	Upon Task Completion	5,000.00
19	12" AIR RELEASE VALVE	Upon Task Completion	10,000.00
20	12" GV	Upon Task Completion	25,000.00
21	Fittings (RWM)	Upon Task Completion	10,000.00
22	12" x12" TEE & Valve	Upon Task Completion	11,000.00
23	12" x 6" TEE & Valve	Upon Task Completion	5,500.00
24	Connecting to Existing	Upon Task Completion	7,000.00
25	Flushing valve assembly	Upon Task Completion	13,000.00
26	6" HDPE Reclaimed Water Main (RWM) Open Cut	Upon Task Completion	4,200.00
27	12" HDPE Reclaimed Water Main (RWM) Open Cut	Upon Task Completion	9,000.00
28	Contingency	Upon Task Completion	152,931.40
Total¹			1,850,470.00

¹Total deliverable costs should match the information in **Table 1** and the description in the Detailed Scope of Work above. Deliverables should be descriptive (e.g., number and size of pumps, length, diameter and location of pipelines) to identify what work is being completed and funding requested.

PROJECT BACKGROUND AND SUPPORTING INFORMATION

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

Have the project design and bid drawings been completed? Yes ☐ No ☒

If yes, date: Enter text.

If no, anticipated date: January 2021

Has the contractor been selected? Yes ☐ No ☒

If no, when: January 2021

Have all land purchases, agreements, rights-of-way, etc. been executed? Yes ☒ No ☐

If no, explain: Enter text.

Have all other necessary items to start construction been completed? Yes ☐ No ☒

If no, explain: Project is still in the design phase. Construction contracts to be executed after bidding.

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

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	

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City of Delray Beach	Enter text.	RWM	Enter text.	No	October 2020
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 is included in the Water Supply Facilities Work Plan and/or Capital Improvement Schedule in the applicable local government's Comprehensive Plan:

City of Delray Beach Florida Capital Improvement Program Budget FY 2019-2023

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

2. Please address the following factors described in FDEP's Guidance Memorandum, dated July 22, 2019 and/or Section 373.707, F.S. (alternative water supply development):

a. In addition to water supply benefits, does the project provide any water quality benefits? If so, please explain.

N/A

b. In addition to water supply benefits, does the project provide complementary benefits such as water conservation, flood protection, or recreational benefits? If so, please explain.

Yes, the project will provide complementary benefits such as water conservation. Customers currently using potable water for irrigation in Area 10 will have the opportunity to convert to reclaimed water, thereby reducing the demand for potable water for irrigation.

c. Describe the quantity of water supplied by the project 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. Calculations can be attached as a separate document.

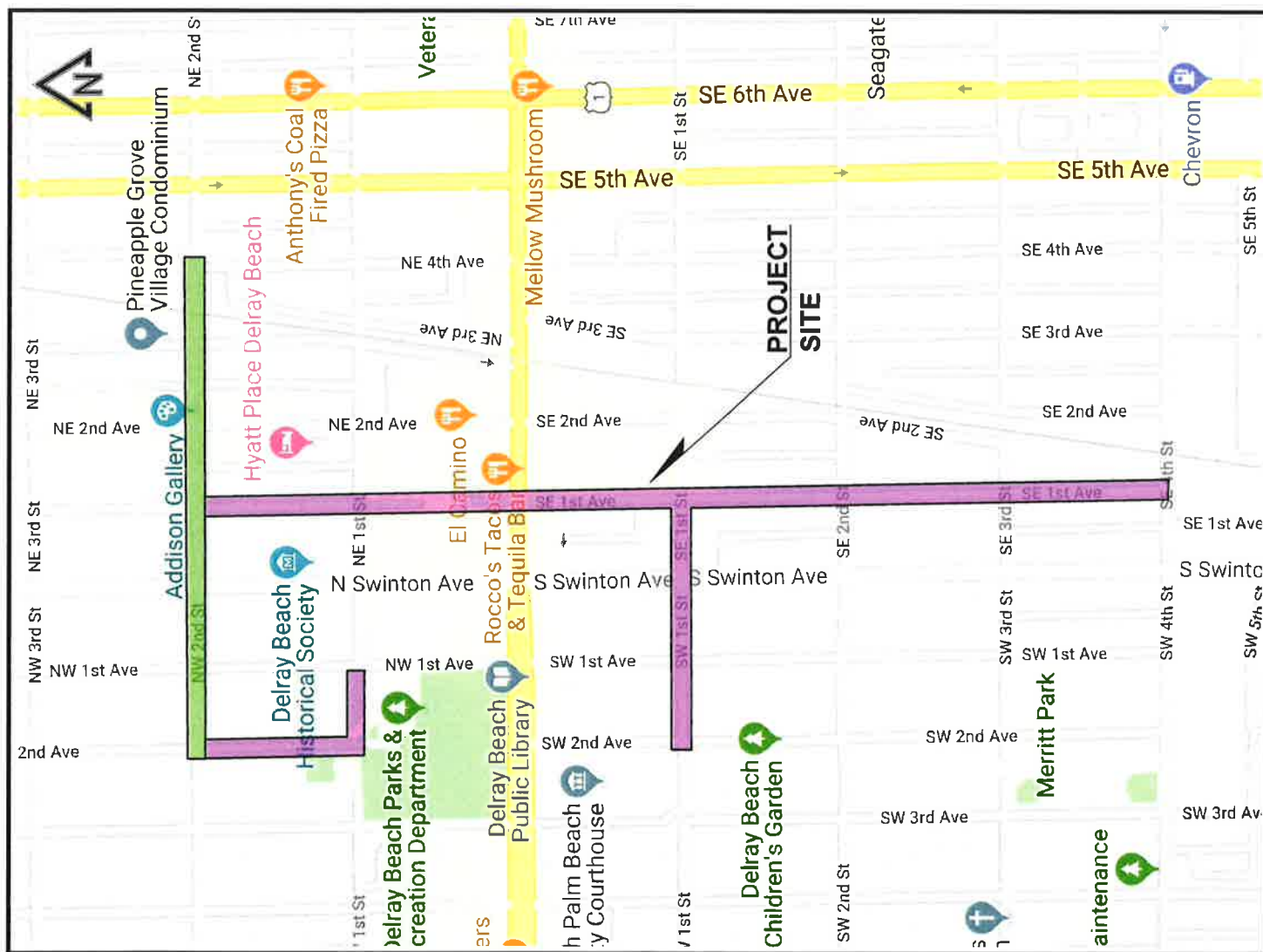
The annual average daily water supplied by this project is 0.116 mgd. Using the total project cost of \$1,850,470.00 and a project life of 30 years, the annualized capital cost for this project is \$2.19 per 1,000 gallons.

d. 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.

e. 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.



PHASE 1
PHASE 2

LOCATION MAP
NTS

FIGURE 1