

Scott Schultz

From: Florida DEP Protecting Florida Together Funding <DEPwebsitemail@dep.state.fl.us>
Sent: Wednesday, July 12, 2023 7:19 AM
To: Scott Schultz
Subject: Submittal Confirmation - Water Quality Improvements Grant Proposal

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Thank you for submitting a project for consideration under the Florida DEP Protecting Florida Together website. Our project team is evaluating your submittal. In the event your submittal is identified to move to the next stage of consideration, our staff will be in touch with you. You can always check our [grants page](#) for final project selections.

Submitted on Wed, 07/12/2023 - 06:08

Submitted by: Anonymous

Submitted values are:

Get Started

Applicant Email

sschultz@greencovesprings.com

Project Details

Contact Name

Scott Schultz

Address

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City

Green Cove Springs

State

Florida

Zip

32043

Phone

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Entity/Sponsor Name

City of Green Cove Springs

Project Title

South Wastewater Treatment Plant Decommissioning

Project Description

The City of Green Cove Springs has two wastewater treatment facilities (WWTF) - Harbor Road WWTF and South WWTF. The city is nearing completion of a new advanced WWTF at the Harbor Road location. The improvements also include updated reclaimed water distribution facilities. The purpose of the project is to pump all sewage currently treated at the South WWTF to Harbor Road WWTF to enhance treatment, reduce surface water discharges, contribute to the reclaimed water system.

Project Location

Enter the county and/or counties in which the project is located.

Clay

Please select the project location on the map below

Project Location Latitude

29.98240106291862

Project Location Longitude

-81.66749261004944

Is the project benefiting a waterbody not attaining nutrient or nutrient-related water quality standards, including an area with a total maximum daily load (TMDL)?

Yes

What is the name of the waterbody not attaining standards that this project benefits?

st. Johns River

Is this project located within a basin management action plan (BMAP) area, a reasonable assurance plan area adopted by final order (RAP), an accepted alternative restoration plan area?

Yes, a BMAP

What BMAP area is the project located in?

Lower St. Johns River Basin Main Stem

Is the project identified in the BMAP Statewide Annual Report?

No

Is this project located within a [Rural Area of Opportunity](#)?

No

Project Benefits

Project Benefits

Enhance the current level of wastewater treatment. Eliminate a facility that has random failures of acute toxicity testing. Reduce discharges to surface waters. Reduce withdrawals from the Floridan Aquifer.

Total Nitrogen reductions (lbs/year)

3000

Total Phosphorus reductions (lbs/year)

2000

Water made available within 2 years of project completion (MGD)

1

Storage created upon project completion (MG)

1

If the project has benefits beyond water quality and/or water quantity, please explain.

Transferring the flow from the South WWTF to the Harbor Road WWTF will eliminate a discharge to the fresh water portion of the St. Johns River, is imperative to compliance with the Surface Water Discharge Elimination Act (SB #64), will reduce / eliminate withdrawals from the Floridan Aquifer, will enhance the treatment level of any current or future discharges to surface waters.

Funding Requests

Is this a new project or a new phase of an existing project?

New Project

Has there been previous state funds, including state grants utilizing state ARPA funds, committed to this project, or a phase of this project?

No

Anticipated grant funds needed

\$ 3.00

Local funds and/or match commitment

\$ 3.00

Total project cost

\$ 6.00

Cost Effectiveness

Note: in the funding section above, the "boxes" are \$3 million, \$3 million, \$6 million.

This project is already designed and permitted. Enhancements to the lift station that will pump the waste from the South WWTF to the Harbor Road WWTF are already completed. In essence, it is "shovel ready".

Proposed Project Readiness to Proceed

Proposed start date

10/01/2023

Estimated end date

03/31/2024

Is this project already permitted?

Yes

Is this project already designed?

Yes

Does this project have approval from a city council, county board or other governing board to move forward?

Yes

Identify the parties responsible for operating and maintaining the proposed project and affirmatively state that there is a legal or other commitment to do so.

The City of Green Cove Springs has been operating utilities for over 100 years and is fully committed to operating and maintaining this project and has the full support of it's governing body (City Council). In the last five years the city has committed over \$25 million to enhance and improve its wastewater and reclaimed water systems - a significant undertaking for a relatively small community.

Project Specific Information

Is there a public outreach component to the project?

Yes

Please describe. Include key messages and target audience.

The city has already began conversations with customers about converting their current irrigation source from the Floridan Aquifer to reclaimed water. not all customers are enamored with this process. In addition, significant public outreach has and will take place as to the cost of improving the public health, reducing withdrawals from the aquifer and protecting the water quality of the St. Johns River and its tributaries.

Is this a septic-to-sewer project?

No

Is this a wastewater treatment facility repair, enhancement, expansion or construction?

Yes

This is a:

Enhancement

What is being proposed for enhancement?

Reducing (ultimately eliminating) surface water discharges to a fresh water section of the St. Johns River, increasing reclaimed water availability and utilization, reducing withdrawals from the Floridan Aquifer, enhancing current treatment levels, treating the waste in an advanced facility with modern operational and monitoring capabilities.

What is the facility ID?

FL 0030210

What was this facility's annual average Total Nitrogen (mg/L) last year?

9

What was this facility's annual average Total Phosphorus (mg/L) last year?

4

Underground Injection

0%

Land Application Slow-rate Restricted Public Access

0%

Land Application Public Access Reuse

0%

Land Application Rapid Rate Infiltration Basin (RIB)

0%

Land Application Surface Water Augmentation

0%

Groundwater Recharge - wetlands

0%

Groundwater Recharge – underground injection

0%

Groundwater Recharge - Rapid-rate land application

0%

Groundwater Recharge – Salinity barriers

0%

Surface Water discharge

100%

Surface water discharge - wetlands

0%

Industrial Reuse

0%

Land application

0%

Current permitted disposal method percentage - validation value

100

Would this project change the disposal method above?

Yes

How?

The waste will be transferred to a facility with an active reclaimed water system and customers

Following any proposed treatment upgrades, what will be this facility's estimated average effluent concentrations of Total Nitrogen (mg/L)?

3

Following any proposed treatment upgrades, what will be this facility's estimated average effluent concentrations of Total Phosphorus (mg/L)?

1

Does the project accommodate and consider growth?

Yes

To what year in the future was growth evaluated?

2030

Will any existing surface water discharge be eliminated due to this project as proposed?

Yes

How much (in mgd)?

0.250

Please describe how the project will improve surface or groundwater quality.

This project is integral to the city's compliance with the Surface Water Discharge elimination Act. Current flow at the South WWTF is 0.25 MGD. Growth in the area is expected to increase significantly upon completion of the First Coast Expressway which will bring in interstate level highway to the area.

Is this a reuse or collection system repair, expansion or construction?

Yes, reuse system

Is this reuse project associated with the reduction or elimination of surface water discharges?

Yes

What is the total capacity of reuse being proposed?

Currently 0.25 MGD

What is the total estimated flow of reuse being proposed within the first 2 years following completion of construction?

0.25 MGD

What amount of surface water discharge will be eliminated due to this project as proposed?

0.25 MGD

Does this project include upgrading conventional onsite sewage treatment and disposal systems to advanced nutrient-reducing system or other equivalent wastewater system that can reduce nitrogen by 65%?

Yes

Is the advanced, nutrient-reducing system approved by the department as capable of meeting or exceeding a 50% total nitrogen reduction before disposal of wastewater in the drainfield, or at least 65% total nitrogen reduction combined from onsite sewage tank or tanks and drainfield or other wastewater system that can reduce total nitrogen by 65%?

Yes. This will be achieved by transferring the waste to a new Advanced Nutrient Removal WWTF.

How many OSTDS systems will be upgraded?

0

Will the applicant be replacing the systems on behalf of homeowners?

No

Will the applicant be using grant funds to offer a grant program to eligible homeowners to install individual enhanced, nutrient-reducing OSTDS?

No

What type of system is being proposed for installation?

Nitrogen-reducing aerobic treatment units (ATU)

Who will be responsible for continued operations and maintenance?

There is no elimination of OSTDS in this project. The form would not let me move forward without placing something in the "boxes"

Is this a stormwater improvement project?

No

Is this a cooperative agricultural regional water quality improvement element in a BMAP?

No

Is this a BMAP project that has water quality benefits not captured by the above five project types (septic-to-sewer, wastewater enhancements, OSTDS upgrades, stormwater improvement, or cooperative agricultural regional project)?

Yes

Please describe how the project removes nutrients.

This will be achieved by transferring the waste to a new Advanced Nutrient Removal WWTF.

Acknowledge and Submit

Yes

Yes



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