

Appropriations Project Request - Fiscal Year 2020-21

For projects meeting the Definition of House Rule 5.14

1. Title of Project: Sanibel Donax Water Reclamation Facility Process Improvements
2. Date of Submission: 11/07/2019
3. House Member Sponsor: Ray Rodrigues
Members Copied:

4. DETAILS OF AMOUNT REQUESTED:

- a. Has funding been provided in a previous state budget for this activity? Yes
If answer to 4a is "No" skip 4b and 4c and proceed to 4d, Col. E
- b. What is the most recent fiscal year the project was funded? 2019-20
- c. Were the funds provided in the most recent fiscal year subsequently vetoed? No
- d. Complete the following Project Request Worksheet to develop your request:

FY:	Input Prior Year Appropriation for this project for FY 2019-20 <i>(If appropriated in 2019-20 enter the appropriated amount, even if vetoed.)</i>			Develop New Funds Request for FY 2020-21 <i>(Requests for additional RECURRING funds are prohibited.)</i>		
Column:	A	B	C	D	E	F
Funds Description:	Prior Year Recurring Funds	Prior Year Nonrecurring Funds	Total Funds Appropriated <i>(Recurring plus Nonrecurring: column A + column B)</i>	Recurring Base Budget <i>(Will equal non-vetoed amounts provided in Column A)</i>	Additional Nonrecurring Request	TOTAL Nonrecurring plus Recurring Base Funds <i>(Will equal the amount from the Recurring base in Column D plus the Additional Nonrecurring Request in Column E.)</i>
Input Amounts:		500,000	500,000		3,000,000	3,000,000

5. Are funds for this issue requested in a state agency's Legislative Budget Request submitted for FY 2020-21? No
 - 5a. If yes, which state agency?
 - 5b. If no, which is the most appropriate state agency to place an appropriation for the issue being requested? Department of Environmental Protection
 - 5c. Has the appropriate state agency for administering the funding, if the request were appropriated, been contacted? Yes
 - 5d. Describe penalties for failing to meet deliverables or performance measures which the agency should provide in its contract to administer the funding if appropriated.

Funding reimbursement may be withheld

6. Requester:

- a. Name: Keith Williams
- b. Organization: City of Sanibel
- c. Email: keith.williams@mysanibel.com
- d. Phone #: (239)472-6397

7. Contact for questions about specific technical or financial details about the project:

- a. Name: Scott Krawczuk
- b. Organization: City of Sanibel
- c. Email: Scott.krawczuk@mysanibel.com
- d. Phone #: (239)472-6397

8. Is there a registered lobbyist working to secure funding for this project?

- a. Name: Fred Dickinson
- b. Firm: Poole McKinley
- c. Email: Fred@poolmckinley.com
- d. Phone #: (850)681-1980

9. Organization or Name of entity receiving funds:

- a. Name: City of Sanibel
- b. County (County where funds are to be expended): Lee
- c. Service Area (Counties being served by the service(s) provided with funding): Lee

10. What type of organization is the entity that will receive the funds? (Select one)

- For Profit
- Non Profit 501(c) (3)
- Non Profit 501(c) (4)
- Local Government
- University or College
- Other (Please describe)

11. What is the specific purpose or goal that will be achieved by the funds being requested?

The goal of this project is to reduce nutrient loading to surface and groundwater from reuse water provided by the Donax WRF. Upgrades to the plant will reduce nutrient concentrations in reuse water provided to golf courses, multi-family, and residential properties by more than 50%. The Sanibel Comprehensive Nutrient Management Plan (Thompson et. al., 2017) identified upgrades to the Donax WRF as the highest priority project for reducing nutrient loading to the impaired Sanibel River.

12. Provide specific details on how funds will be spent. (Select all that apply)

Spending Category	Description	Nonrecurring (Should equal 4d, Col. E) Enter "0" if request is zero for the category
Administrative Costs:		
<input type="checkbox"/> a. Executive Director/Project Head Salary and Benefits		
<input type="checkbox"/> b. Other Salary and Benefits		
<input type="checkbox"/> c. Expense/Equipment/Travel/Supplies/Other		
<input type="checkbox"/> d. Consultants/Contracted Services/Study		
Operational Costs:		
<input type="checkbox"/> e. Salaries and Benefits		
<input type="checkbox"/> f. Expenses/Equipment/Travel/Supplies/Other		
<input type="checkbox"/> g. Consultants/Contracted Services/Study		
Fixed Capital Construction/Major Renovation:		
<input checked="" type="checkbox"/> h. Construction/Renovation/Land/Planning Engineering	Funds will be spent on construction of process improvements that include: conversion of Plant 1 to flow equalization; conversion of Plants 2 & 3 to Bardenpho process; addition of membrane bioreactor process; yard	3,000,000

	piping; electrical & instrumentation improvements.	
TOTAL		3,000,000

13. For the Fixed Capital Costs requested with this issue (In Question 12, category “h. Fixed Capital Outlay” was selected), what type of ownership will the facility be under when complete? (Select one correct option)

For Profit

Non Profit 501(c) (3)

Non Profit 501(c) (4)

Local Government (e.g., police, fire or local government buildings, local roads, etc.)

State agency owned facility (For example: college or university facility, buildings for public schools, roads in the state transportation system, etc.)

Other (Please describe)

14. Is the project request an information technology project?

15. Is there any documented show of support for the requested project in the community including public hearings, letters of support, major organizational backing, or other expressions of support?

Yes

15a. Please Describe:

The project has been identified in the City's 5-year Capital Improvement Plan. A robust discussion about the project has occurred at a number of City Council meetings, with full public support for the project. The City has received letter of support from the Ding Darling Wildlife Society and emails of support from individual residents urging the City to move forward with the upgrades.

16. Has the need for the funds been documented by a study, completed by an independent 3rd party, for the area to be served?

Yes

16a. Please Describe:

The City of Sanibel contracted Tetra Tech (2015) to evaluate the Donax WWRF performance. Based on that study, the proposed upgrades will remove between 50-70% of the nitrogen and phosphorus load leaving the plant in water used for irrigation. The City of Sanibel also contracted the SCCF Marine Lab to conduct a Comprehensive Nutrient Management Plan for Sanibel (Thompson et. al., 2017). That study identified reuse water as the largest nutrient source in the eastern Sanibel River.

17. Will the requested funds be used directly for services to citizens?

18. What benefits or outcomes will be realized by the expenditure of funds requested? (Select each Benefit/Outcome that applies)

Benefit or Outcome	Provide a specific measure of the benefit or outcome	Describe the method for measuring level of benefit
<input type="checkbox"/> Improve physical health		
<input type="checkbox"/> Improve mental health		
<input type="checkbox"/> Enrich cultural experience		
<input type="checkbox"/> Improve agricultural production/promotion/education		
<input type="checkbox"/> Improve quality of education		
<input checked="" type="checkbox"/> Enhance/preserve/improve environmental or fish and wildlife quality	This project will reduce nutrient loading to Sanibel's surface and groundwater, which impact the quality of the coastal waters of Charlotte Harbor. This project will directly reduce nitrogen and phosphorus loading to the impaired Sanibel River and will improve habitat for fish and wildlife by improving dissolved oxygen in the water and reducing the potential for harmful algal blooms.	The process improvements are anticipated to reduce total nitrogen and total phosphorus concentrations by an estimated 50-70%. The FDEP's current permitted criteria levels are 12.0 mg/L Nitrogen, 5.0 mg/L TSS, 30 mg/L BOD, and no limit on Phosphorus. Upgrades will reduce nitrogen to <3.0 mg/L and <1.0 mg/L for phosphorus, which meets advanced waste treatment standards. Effluent will be measured to ensure it meets these nutrient load reduction goals.
<input checked="" type="checkbox"/> Protect the general public from harm (environmental, criminal, etc.)	This project will reduce nitrogen and phosphorus available to harmful algal blooms. Harmful algal blooms such as blue-green algae (e.g., Microcystis sp. and red tide (Karenia brevis) can	The City's water quality monitoring program will capture changes in water quality. As part of the Sanibel Comprehensive Nutrient Management Plan and the Sanibel

	produce toxins that are harmful to human health.	Communities for Clean Water Program (SanibelCleanWater.org), the City has extensive surface and ground water monitoring data. Sites will be resampled periodically to evaluate changes in water quality associated with this project.
<input type="checkbox"/> Improve transportation conditions		
<input type="checkbox"/> Increase or improve economic activity		
<input checked="" type="checkbox"/> Increase tourism	Sanibel Island is one of the primary economic drivers for Lee County, with tourism in Lee County generating more than \$3 billion annually. Sanibel is an international destination and our beaches have been ranked as some of the best in the world. This project will protect and improve the quality of our coastal waters, increasing tourism and use of local beaches.	The City of Sanibel evaluates visitation through the Lee County causeway tolls, Visitor and Convention Bureau surveys, parking meters at the City's beach parks and through other performance metrics. In addition, water quality is monitored by the City of Sanibel at sites throughout the island. That data is available to the public through the FDEP STORET system and through the City's water quality website. www.mysanibel.com/Departments/Natural-Resources/Protecting-Our-Water-Quality
<input checked="" type="checkbox"/> Create specific immediate job opportunities	This project will create and/or support local engineering jobs, survey jobs and construction jobs during project construction. It is estimated that \$6 million will be paid out to Florida businesses during the life of the construction project.	The City of Sanibel will document the number of contractors, sub-contractors, etc. that participate in the project to determine the overall impact on job creation/job opportunities as a result of the project.

<input type="checkbox"/> Enhance specific individual's economic self sufficiency		
<input type="checkbox"/> Reduce recidivism		
<input type="checkbox"/> Reduce substance abuse		
<input type="checkbox"/> Divert from Criminal/Juvenile justice system		
<input checked="" type="checkbox"/> Improve wastewater management	<p>This project will directly improve the quality of effluent water leaving the Donax WRF, which is used as irrigation by golf courses, multi-family and residential properties. It is estimated that this project will reduce nutrient loading by 50-70%, ensuring reuse water continues to be an asset instead of a liability.</p>	<p>The process improvements are anticipated to reduce total nitrogen and total phosphorus concentrations by an estimated 50-70%. The FDEP's current permitted criteria levels are 12.0 mg/L Nitrogen, 5.0 mg/L TSS, 30 mg/L BOD, and no limit on Phosphorus. Upgrades will reduce nitrogen to <3.0 mg/L and <1.0 mg/L for phosphorus, which meets advanced waste treatment standards. Effluent will be measured to ensure it meets these nutrient load reduction goals.</p>
<input checked="" type="checkbox"/> Improve stormwater management	<p>Reclaimed water has been identified as the largest source of nutrient loading to the eastern Sanibel River, which is impaired by FDEP for nitrogen and phosphorus. Reuse water used by golf courses, multi-family and residential properties runs off the landscape in stormwater and enters the River. Reuse water also enters surface water indirectly through groundwater due to our sandy soils. This project will reduce nutrient levels in water provided to</p>	<p>The quality of the effluent will be directly measured as it leaves the WRF. Surface water and storm event sampling is conducted by the City of Sanibel as part of the City's Ambient Water Quality Monitoring Program and NPDES monitoring. Data will be analyzed periodically to ensure the load reductions are achieved.</p>

	end-users improving the quality of stormwater.	
<input checked="" type="checkbox"/> Improve groundwater quality	Phase 3 of the Sanibel Comprehensive Nutrient Management Plan (Thompson and Milbrandt, 2016) identified land use types that utilized reuse water had much high nutrient loading rates to the surficial aquifer. The authors suggested that reducing nutrient concentrations in reuse water used for irrigation would reduce nutrient loading to groundwater, surface water and ultimately water discharged to coastal Charlotte harbor.	The quality of the effluent will be directly measured as it leaves the WRF. Surface water and storm event sampling is conducted by the City of Sanibel as part of the City's Ambient Water Quality Monitoring Program and NPDES monitoring. Baseline groundwater sampling was conducted throughout Sanibel in 2015/16 as part of the Comprehensive Nutrient Management Plan. Additional sampling will be conducted periodically to ensure the load reductions are achieved.
<input type="checkbox"/> Improve drinking water quality		
<input checked="" type="checkbox"/> Improve surface water quality	This project will directly reduce nutrient loading to the impaired Sanibel River (TMDL for nutrients adopted August 2017). This project will directly improve the quality of effluent water leaving the Donax WRF, which is used as irrigation by golf courses, multi-family and residential properties. It is estimated that this project will reduce nitrogen and phosphorus loading by 50-70%.	The quality of the effluent will be directly measured as it leaves the WWRF. Surface water and storm event sampling is conducted by the City of Sanibel as part of the City's Ambient Water Quality Monitoring Program and NPDES monitoring. Data will be analyzed periodically to ensure the load reductions are achieved.
<input type="checkbox"/> Other (Please describe):		

19. Provide the total cost of the project for FY 2020-21 from all sources of funding (Enter "0" if amount is zero):

Type of Funding	Amount	Percent of Total	Are the other sources of funds guaranteed in writing?
1. Amount Requested from the State in this Appropriations Project Request:	3,000,000	36.9%	N/A
2. Federal:	0	0.0%	No
3. State: (Excluding the requested Total Amount in #4d, Column F)	0	0.0%	No
4. Local:	5,141,000	63.1%	Yes
5. Other:	0	0.0%	No
TOTAL	8,141,000	100%	

20. Is this a multi-year project requiring funding from the state for more than one year?

Yes

20a. How much state funding would be requested after 2020-21 over the next 5 years?

- <1M
- 1-3M
- >3-10M
- >10M

20b. How many additional years of state support do you expect to need for this project?

- 1 year
- 2 years
- 3 years
- 4 years
- >= 5 years

20c. What is the total project cost for all years including all federal, local, state, and any other funds? Select the single answer which best describes the total project cost. If funds requested are for ongoing services or for recurring activities, select "ongoing activity".

Ongoing activity – no total cost

- <1M
- 1-3M
- >3-10M
- >10M

21. What is the revenue source of ongoing operating funds?
City of Sanibel Utilities Fund CIP

22. Has local approval been given for ongoing operating funds?
Yes

23. Have you applied for alternative state funding?

- a. Wastewater Revolving Loan
- b. Drinking Water Revolving Loan
- c. Small Community Wastewater Treatment Grant
- d. Other (Please describe): SFWMD Cooperative Funding Program
- e. N/A

24. Has project been addressed in a local, regional, or state plan?
No

25. Is the project for a financially disadvantaged community? (as defined in Chapter 62-552, F.A.C.)
No

26. What is the population economic status?

- a. Financially Disadvantaged Municipality
- b. Rural Area of Critical Economic Concern
- c. Rural Community Experiencing Economic Distress
- d. N/A

27. What is the status of planning?

- a. Ready
- b. Not Ready

28. What percentage of the planning process has been completed?
100

29. What is the estimated planning completion date?

08/28/2017

30. What is the status of design?

a. Ready

b. Not Ready

31. What percentage of design has been completed?

100

32. What is the estimated design completion date?

08/20/2018

33. List all required permits.

Florida Department of Environmental Protection Domestic Wastewater Facility Permit

34. What is the status of permitting?

a. Planned

b. Submitted

c. Received

35. What is the status of construction?

a. Ready

b. Not Ready

36. What percentage of construction has been completed?

40

37. What is the estimated completion date of construction?

07/31/2021