

**PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS**

AGENDA ITEM SUMMARY

Meeting Date: February 6, 2024 **Consent [X]** **Regular []**
Public Hearing []

Department: Water Utilities Department

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to:

- A.) approve** a State Revolving Loan (SRF) Program for Drinking Water Facilities Loan Application for Planning and Design for the upgrades to WTP 2, 3, 8 & 9 to remove perfluoroalkyl and polyfluoroalkyl substance (PFAS) Project No. DW-5020C in the amount of \$9,968,768;
- B.) adopt** a Resolution of the Board of County Commissioners (BCC) of Palm Beach County, Florida, relating to the State Revolving Fund for Project No. DW-5020C;
- C.) delegate authority to** the County Administrator, or her designee which in this case shall be the Director of Palm Beach County Water Utilities Department (PBCWUD), to sign all loan application forms and supporting documents, complete all registration requirements, execute the forthcoming agreement and all future time extensions, task assignments, certifications, and other forms associated with the loan agreement and any necessary minor amendments that do not substantially change the scope of work, terms, or conditions of the agreement.

Summary: The Drinking Water State Revolving Fund (DWSRF) Program provides low-interest loans to eligible entities for planning, designing and constructing public water facilities. Funds are made available for planning, design and construction loans. The DWSRF was allocated an additional fund source for the DWSRF Emerging Contaminants (EC) program which is for projects with the primary purpose of addressing emerging contaminants in drinking water, such as PFAS. Under the DWSRF EC program 100% of the funding will be given as principal forgiveness. PBCWUD has received funding to evaluate and develop potential treatment options at the lime softening facilities for Water Treatment Plants (WTP) 2 and 8 to reduce PFAS concentrations. PBCWUD has also received funding to evaluate solutions for expansion of nanofiltration at the membrane facilities of WTP 3 and 9 to meet near-term demand of the Eastern water distribution system. **The \$9,968,768 loan has 100% principal forgiveness and no repayment/match is required. Countywide (MWJ)**

Background and Justification: President Biden signed the Bipartisan Infrastructure Law (BIL) on November 15, 2021. The BIL provides \$5 billion through the State Revolving Funds (SRFs) to reduce exposure to PFAS and other emerging contaminants through drinking water. The BIL provides emerging contaminants funding through the SRFs that must be distributed to communities entirely as forgivable loans or grants.

Attachments:

1. Two (2) State Revolving Loan Program for Drinking Water Facilities Loan Applications
2. One (1) Original Resolution

Recommended By: Ali Bayat 1/31/2024
Department Director Date

Approved By: [Signature] 2/2/24
Assistant County Administrator Date

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2024	2025	2026	2027	2028
Capital Expenditures	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Operating Costs	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
External Revenues	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>
Program Income (County)	<u>0</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>0</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** **Object**

Is Item Included in Current Budget? Yes No X

Does this item include the use of Federal Funds? Yes No X

Does this item include the use of State Funds? Yes No X

Reporting Category N/A

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

No Fiscal Impact

C. Department Fiscal Review: *Ebony Soreman*
MB
01/30
GE

III. REVIEW COMMENTS

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

<p><u><i>Jana Minter</i></u> <i>2/1/2024</i> OFMB <i>QA/30</i> <i>MP 1/30</i></p>	<p><u><i>Munda Mack</i></u> Contract Development and Control <i>2/1/24</i></p>
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B. Legal Sufficiency:


Assistant County Attorney for MWS
2/2/2024

C. Other Department Review:

Department Director

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

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

**STATE REVOLVING LOAN PROGRAM
FOR
DRINKING WATER FACILITIES**

LOAN APPLICATION



Florida Department of Environmental Protection
State Revolving Fund Program
Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, FL 32399-3000

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LOAN APPLICATION

- (1) SUBMITTAL. Submit the application and attachments to the Department of Environmental Protection, MS 3505, State Revolving Fund Program, Marjorie Stoneman Douglas Building, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000. The application (and supporting documentation) may be submitted electronically to the Department's Project Manager.
- (2) COMPLETING THE APPLICATION.
- (a) This application consists of five parts: (I) ADMINISTRATIVE INFORMATION; (II) PROJECT INFORMATION; (III) FINANCIAL INFORMATION; (IV) AUTHORIZATION AND ASSURANCES; and (V) SUPPLEMENTARY INFORMATION.
- (b) All information provided on this application must be printed. Monetary amounts may be rounded.
- (c) Forms and attachments to be submitted are denoted with italic print.
- (3) ASSISTANCE. Completing this application may require information that can be obtained from the Drinking Water State Revolving Fund Program staff. Please email SRF_Reporting@dep.state.fl.us for assistance in completing this application.

PART I - ADMINISTRATIVE INFORMATION

(1) PROJECT SPONSOR Palm Beach County
 Federal Employer Identification Number 59-6000785
 DUNS Number _____

(2) AUTHORIZED REPRESENTATIVE (person authorized to sign or attest loan documents).
 Name Maria Sachs Title Mayor
 Telephone 561-355-2205 Email MSachs@pbc.gov
 Mailing Address 301 North Olive Ave. Suite 1201, West Palm Beach, FL 33401

(3) PRIMARY CONTACT (person to answer questions regarding this application).
 Name Krystin Berntsen Title Deputy Director
 Telephone 561-493-6027 Email kberntsen@pbcwater.com
 Employer Palm Beach County
 Mailing Address 8100 Forest Hill Blvd, West Palm Beach FL 33413

(4) ADDITIONAL CONTACTS. If more than one additional person is to receive copies of Department correspondence, attach the information (*Attachment #* _____).
 Name Jane House Title Director of Engineering
 Telephone 561-493-6076 Email jhouse@pbcwater.com
 Employer Palm Beach County
 Mailing Address 8100 Forest Hill Blvd, West Palm Beach FL

(5) PROJECT NUMBER (listed on the Department's priority list). DW-5020C

(6) INTERIM FINANCING. A local government project sponsor that has interim financing may be subject to certain conditions regarding such financing.

Is the project currently being funded with interim financing? Yes No

PART II – PROJECT INFORMATION

If you are applying for a planning or design loan for a project that will involve construction, complete only Subpart A below. If you are applying for a loan to construct a project that is already planned and designed, complete only Subpart B below.

A. PLANNING OR DESIGN PROJECT

Information should be provided for each separate facility to be planned and designed as appropriate. For design/build projects (not eligible for design loans) or those where multiple facilities, segments, or phases are involved, please attach information for activities, schedule, and cost for each. (*Attachment #1*)

- (1) **ACTIVITIES.** Attach a brief description of the scope of planning and design activities to be financed by this loan. Include a list of any engineering services to be performed. (*Attachment #1*) Are these activities the same as those scheduled on the *Request for Inclusion Form*? Yes No. If “No”, please explain. (*Attachment #*)
- (2) **SCHEDULE.**
- (a) Provide proposed completion dates for the items. (Please call Department staff to discuss time frames needed to complete required tasks.)
- | | |
|------------------------------------|---------------|
| Planning documentation | December 2025 |
| Engineering design | June 2028 |
| Certification of site availability | N/A |
| Permitting | December 2028 |
- (b) Do you anticipate that an interlocal agreement with another party will be necessary to implement the project? If “Yes”, please explain. (*Attachment #*) Yes No
- (c) Is this a design/build project? Yes No
- (3) **COST.** Is the cost information submitted for the planning or design loan priority list current? If “No”, please explain and submit revised cost information using the appropriate page of the *Request for Inclusion Form*. (*Attachment #*) Note that the disbursable amount will be limited to the priority list amount. Yes No

PLANNING OR DESIGN APPLICANTS PROCEED TO PART III.

B. CONSTRUCTION PROJECT

- (1) **ACTIVITIES.**
- (a) Attach a brief description of construction activities to be financed by this loan. Include a list of the contracts (by title) corresponding to the plans and specifications accepted by the Department (*Attachment #*).
 Are these contracts the same as those scheduled on the *Request for Inclusion Form*? Yes No
 If “No”, please explain. (*Attachment #*)
- (b) Have any of the contracts been bid? Yes No
 If “Yes”, indicate which contracts have been bid. (*Attachment #*)
- (c) Was planning or design for this project financed in another SRF loan? Yes No
 If “Yes”, give the SRF loan number. _____
- (d) Does this project involve an interlocal agreement with other local governments or other entities? Yes No
 If “Yes”, attach a copy of the interlocal agreement. (*Attachment #*)
 Is the interlocal agreement fully executed and enforceable? Yes No

If "No", please explain (*Attachment #*_____).

(2) SCHEDULE. (month and year)

(a) Anticipated notice to proceed for first construction contract. _____

(b) Anticipated completion of all construction contracts. _____

(3) COST. Is the cost information submitted for the priority list current? Yes No

If "No", please explain and submit revised cost information using the appropriate page of the *Request for Inclusion Form*. (*Attachment #*_____). Note that the disburseable amount will be limited to the priority list amount.

PART III - FINANCIAL INFORMATION

Estimates of the capitalized interest, interest rate, pledged revenue coverage, limitations on annual loan amounts for large projects, applicability and amount of repayment reserves, amount of the loan service fee and any other information may be obtained by contacting staff in the State Revolving Fund Management Section.

(1) PRINCIPAL. The requested amount of the loan which does not include capitalized interest is \$9,968,768

Note that the disburseable amount will be limited to the priority list amount and must be consistent with the project information provided under **PART II** of this application. Also note that the capitalized interest is an inexact estimate, and it is subject to adjustment by the Department to reflect actual disbursement timing. The principal amount of the loan does not include the loan service fee.

(2) TERMS AND REPAYMENT.

(a) Loans for planning and design shall be amortized over 10 years. Construction loans to local government project sponsors are amortized over the lesser of useful life of the project or 20 years unless the project is to serve a small community qualifying as financially disadvantaged. Construction loans to financially disadvantaged small communities may be amortized over the lesser of useful life of the project or 30 years. Construction loans to non-governmental project sponsors are amortized over the lesser of the useful life of the project or 20 years. Interest charges and principal are paid semiannually.

What is the useful life of the project? _____ (years)

Over how many years would you like to amortize the loan? _____ (years)

(b) List all revenues that are to be pledged for repayment of this loan. _____

(c) Pledged revenue receipts or collections by the project sponsor must exceed the amount of the repayments due to the Department unless there are other collateral provisions. The excess revenue, or coverage, generally is 15% of each repayment.

What coverage is proposed for the loan? _____% (coverage percentage)

(d) Is any other financial assistance being applied to this project? Yes No

If "Yes", please list. (*Attachment #*_____)

(3) ANNUAL FUNDING LIMIT. Large project funding (generally, loans in excess of \$10 million) may be provided in increments pursuant to the initial loan agreement and subsequent amendments.

(4) INFORMATION ON LIENS.

(a) Describe, if applicable, all debt obligations having a prior or parity lien on the revenues pledged to repay this loan. (*Attachment #*_____). For example: City Name, Florida, Water and Sewer System Revenue Bonds, Series 1996, issued in the amount of \$10,000,000, pursuant to Ordinance No. 93-104, as amended and supplemented by Ordinance No. 96-156.

(b) Using the Part V, *Schedule of Prior and Parity Liens*, provide debt service information, if applicable, on each prior and parity obligation.

- (c) For the listed obligations, provide a copy of the ordinance(s), resolution(s), official statement(s), or pages thereof, setting forth the definitions, use of proceeds, debt service schedule, pledged revenues, rate covenants, provisions for issuing additional debt, provisions for bond insurance, and debt rating. (*Attachment #_____*).
- (d) Describe any other notes and loans payable from the revenues pledged to repay this loan. (*Attachment #_____*).
- (5) ACTUAL AND PROJECTED REVENUES.
 - (a) Complete the Part V, *Schedule of Actual Revenues and Debt Coverage* for the past two fiscal years.
 - (b) Complete the Part V, *Schedule of Projected Revenues and Debt Coverage*, demonstrating the availability of pledged revenues for loan repayment.
- (6) AVAILABILITY OF PLEDGED REVENUES. All sources must be supported by a written legal opinion. (*Attachment #_____*) The opinion must address the following:
 - (a) Availability of the revenues to repay the loan.
 - (b) Right to increase rates at which revenues shall be collected to repay the loan.
 - (c) Subordination of the pledge if pledged revenues are subject to a prior or parity lien.
- (7) LOAN SERVICE FEE. A loan service fee is assessed on each loan. The fee is not part of the loan. The fee along with interest thereon will be deducted from the first available repayments after the final amendment to the loan agreement.

PART IV – AUTHORIZATION AND ASSURANCES

- (1) AUTHORIZATION. Provide an authorizing resolution of the Applicant's governing body or other evidence of authorization (*Attachment #2_____*) for the following:
 - (a) Pledging revenues to repay the loan.
 - (b) Designation of the Authorized Representative(s) to file this application, provide assurances, execute the loan agreement, and represent the Applicant in carrying out responsibilities (including that of requesting loan disbursements) under the loan agreement.
- (2) ASSURANCES. The Applicant agrees to comply with the laws, rules, regulations, policies and conditions relating to the loan for this project. Applicants should seek further information from the Drinking Water State Revolving Fund Program staff as to the applicability of the requirements if the necessity for the assurances is of concern. Specifically, the Applicant certifies that it has complied, as appropriate, and will comply with the following requirements, as appropriate, in undertaking the Project:
 - (a) Assurances for capitalization grant projects.
 - 1. Complete all facilities for which funding has been provided.
 - 2. The Applicant is advised, pursuant to 40 CFR 35 Section 35.3575, that a number of Federal law, executive orders, and government-wide policies can apply to your project or activity that is receiving Federal financial assistance. The Applicant agrees to read those provisions regarding the application of Federal cross-cutting authorities (cross-cutters) to determine their applicability to your specific project or activity.
 - (b) Assurances for other projects. Please note that Florida Statutes are available at <http://www.leg.state.fl.us>. They are also available at the following physical address: Florida Department of State Division of Library and Information Services R.A. Gray Building 500 South Bronough Street Tallahassee, Florida 32399-0250.
 - 1. Chapter 161, Part I, F.S., "Beach and Shore Preservation Act" and Part III, "Coastal Zone Protection Act of 1985" which regulate coastal zone construction and all activities likely to affect the condition of the beaches or shore.
 - 2. Chapter 163, Part II, F.S., the "Local Government Comprehensive Planning and Land Development Regulation Act" which requires units of local government to establish and implement comprehensive planning programs to control future development.
 - 3. Chapter 186, F.S., State and Regional Planning, which requires conformance of projects with Regional Plans and the State Comprehensive Plan.
 - 4. Chapter 253, F.S., "Emergency Archaeological Property Acquisition Act of 1988" which requires protection of archaeological properties of major statewide significance discovered during construction activities.

5. Chapter 258, Part III, F.S., which requires protection of components or potential components of the national wild and scenic rivers system.
 6. Chapter 267, F.S., the "Florida Historical Resources Act" which requires identification, protection, and preservation of historic properties, archaeological and anthropological sites.
 7. Chapter 287, Part I, F.S., which prohibits parties convicted of public entity crimes or discrimination from participating in State-assisted projects and which requires consideration of the utilization of Minority Business Enterprises in State-assisted projects.
 8. Chapter 372, F.S., the Florida Endangered and Threatened Species Act which prohibits the killing or wounding of an endangered, threatened, or special concern species or intentionally destroying their eggs or nest.
 9. Chapter 373, Part IV, F.S., Florida Water Resources Act of 1972, which requires that activities on surface waters or wetlands avoid adversely affecting: public health, safety, welfare, or property; conservation of fish and wildlife, including endangered or threatened species or their habitats; navigation or the flow of water; the fishing or recreational values or marine productivity; and significant historical and archaeological resources.
 10. Chapter 380, Part I, F.S., Florida Environmental Land and Water Management Act of 1972 as it pertains to regulation of developments and implementation of land and water management policies.
 11. Chapter 381, F.S., Public Health, as it pertains to regulation of onsite wastewater systems.
 12. Chapter 403, Part I, F.S., Florida Air and Water Pollution Control which requires protection of all waters of the state.
 13. Chapter 582, F.S., Soil and Water Conservation Act which requires conformance with Water Management District's regulations governing the use of land and water resources.
 14. Governor's Executive Order 95-359, which requires State Clearinghouse review of project planning documentation and intergovernmental coordination.
- (c) Assurances for all projects. The loan recipient certifies that it is not listed on the governmentwide exclusions in the System for Award Management (SAM), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 (3 CFR part 1989 Comp., p. 235), "Debarment and Suspension."

I, the undersigned Authorized Representative of the Applicant, hereby certify that all information contained herein and in the attached is true, correct, and complete to the best of my knowledge and belief. I further certify that I have been duly authorized to file the application and to provide these assurances.

Signed this _____ Day of _____, 20 _____
 Authorized Representative _____ **Maria Sachs, Mayor**
(signature) *(name typed or printed)*

Attachments

ACCEPTED BY PALM BEACH COUNTY

(COUNTY SEAL)

PALM BEACH COUNTY, FLORIDA, BY ITS
BOARD OF COUNTY COMMISSIONERS

ATTEST:

JOSEPH ABRUZZO, CLERK OF THE
CIRCUIT COURT AND COMPTROLLER,
PALM BEACH COUNTY


By: _____
DEPUTY CLERK

By: _____
Maria Sachs, Mayor

APPROVED AS TO FORM AND LEGAL SUFFICIENCY

By: 
ASSISTANT COUNTY ATTORNEY

APPROVED AS TO TERMS AND CONDITIONS

KB By: 
DIRECTOR OF WATER UTILITIES

PART V – SUPPLEMENTARY INFORMATION

**SCHEDULE OF PRIOR AND PARITY LIENS
(EXCLUDING SRF LOANS)**

List annual debt service beginning two years before the anticipated loan agreement date and continue at least three additional fiscal years. Use additional pages as necessary.

	#1	#2	#3
Identify Each Obligation	_____	_____	_____
Coverage	_____ %	_____ %	_____ %
Insured?	____ Yes _____ No	____ Yes _____ No	____ Yes _____ No

Fiscal Year	<u>Annual Debt Service (Principal Plus Interest)</u>			<u>Total Debt Service</u>	<u>Total Debt Service Incl. Coverage</u>
	#1	#2	#3		
20	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
20 December	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
20 June 2028	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
20 N/A	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
20 December	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
20	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
20	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
20	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
20	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
20	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
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20	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
20	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____
20	\$ _____	\$ _____	\$ _____	\$ _____	\$ _____

PART V – SUPPLEMENTARY INFORMATION

SCHEDULE OF ACTUAL REVENUES AND DEBT COVERAGE

(Provide information for the two fiscal years preceding the anticipated date of the SRF loan agreement.)

	<u>Year 20</u>	<u>Year 20</u>
(a) Operating Revenues (Source)		
_____	_____	_____
_____	_____	_____
(b) Interest Income		
_____	_____	_____
(c) Other Income or Revenue (Identify)		
_____	_____	_____
_____	_____	_____
(d) Total Revenues		
_____	_____	_____
(e) Operating Expenses (excluding interest on debt, depreciation, and other non-cash items)		
_____	_____	_____
(f) Net Revenues [(f) = (d) – (e)]		
_____	_____	_____
(g) Debt Service (including any required coverage)		
_____	_____	_____
(h) Attach audited annual financial report(s), or pages thereof, or other documentation necessary to support the above information. Include any notes or comments from the audit reports regarding compliance with covenants of debt obligations having a prior or parity lien on the revenues pledged for repayment of the SRF Loan. (Attachment # _____)		
(i) Attach worksheets reconciling this page with the appropriate financial statements (for example, backing out depreciation and interest payments from operating expenses). (Attachment # _____)		
(j) If the net revenues were not sufficient to satisfy the debt service and coverage requirement, please explain what corrective action was taken. (Attachment # _____)		

PART V – SUPPLEMENTARY INFORMATION

SCHEDULE OF PROJECTED REVENUES AND DEBT COVERAGE

Begin with the fiscal year preceding first anticipated semiannual loan payment and continue for at least three additional years. Attach a separate page for previous State Revolving Fund loans.

	<u>Year</u> <u>20</u>	<u>Year</u> <u>20</u>	<u>Year</u> <u>20</u>	<u>Year</u> <u>20</u>	<u>Year</u> <u>20</u>
(a) Operating Revenue	_____	_____	_____	_____	_____
(b) Interest Income	_____	_____	_____	_____	_____
(c) Other Income or Revenue (identify)	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
(d) Total Revenues	_____	_____	_____	_____	_____
(e) Operating Expenses (excluding interest on debt, depreciation, and other non-cash items)	_____	_____	_____	_____	_____
(f) Net Revenues (f = d - e)	_____	_____	_____	_____	_____
(g) Revenue (including coverage) pledged to debt service, excluding SRF loans	_____	_____	_____	_____	_____
(h) Revenue (including coverage) pledged to outstanding SRF loans	_____	_____	_____	_____	_____
(i) Revenue Available for this SRF Loan [(i) = (f) – (g) – (h)]	_____	_____	_____	_____	_____
(j) Identify the source of the above information and explain methods used to develop the projections (<i>Attachment # _____</i>). Include an explanation of any revenue and expense growth or other adjustments; for example, any rate increases, service growth, inflation adjustments, expense adjustments reflecting the cost of operating additional facilities, or other considerations.					
(k) For construction loans, are the above projections consistent with the accepted financial feasibility information in the planning documents?				<input type="checkbox"/> Yes	<input type="checkbox"/> No
If “No”, please explain. (<i>Attachment # _____</i>)					

PART V – SUPPLEMENTARY INFORMATION

LIST OF ATTACHMENTS

LIST OF ATTACHMENTS. This application requires the submittal of *Attachments* to provide supplemental information. The application is not complete without the completed *List of Attachments*. Please list all attachments that you are including with this application form.

Attachment	Number
Project Activities, Schedule and Cost	1
Resolution	2

ATTACHMENT NO. 1

PROJECT ACTIVITIES, SCHEDULE AND COST

PROJECT NO. DW-5020C

Project Title: WTP 8 Treatment Alternative Analysis

Activities

The United States Environmental Protection Agency (USEPA) released draft National Primary Drinking Water Regulations (NPDW) with maximum contaminant limits (MCLs) for per- and polyfluoroalkyl substances (PFAS) in March of 2023. This includes perfluorooctanoic acid (PFOA) at 4 parts per trillion (ppt) and perfluorooctane sulfonate (PFOS) at 4 ppt as well as four (4) other related compounds that are regulated under a Hazard Index approach. Currently under the draft NPDW regulations, Water Treatment Plant No. 8 (WTP 8) is not in compliance with the requirement.

PBCWUD has retained a consultant to perform engineering services to develop short term solutions for WTP 8 and to ensure compliance with the new regulations by 2027. The study will include an alternative evaluation of potential treatment options for WTP 8. The anticipated technologies may include Power Activated Carbon, Granular Activated Carbon, Ion Exchange, Nanofiltration, etc.

Alternatives will be reviewed and summarized to include a description, an updated process flow diagram, estimated efficacy in treatment for the PFAS species of interest, footprint requirements at each facility, operational complexity, residual disposal considerations, hydraulic requirements for each facility, conceptual opinion of probable construction cost, preliminary construction durations (to account for the 2027 compliance requirement) and recommendations on contracting mechanism for each alternative. Operations and maintenance cost estimates, and life cycle cost analyses will be provided based on assumed typical operating conditions.

Cost

\$99,921.00

Schedule

11/15/2023	Notice to Proceed
5/14/2024	Draft Report
8/30/2024	Final Report
10/30/2024	Project Closeout

Project Title: WTP 2 Treatment Alternative Analysis

Activities

The United States (US) Environmental Protection Agency EPA released draft National Primary Drinking Water Regulations (NPDW) with maximum contaminant limits (MCLs) for per-and polyfluoroalkyl substances (PFAS) in March of 2023. This includes perfluorooctanoic acid (PFOA) at 4 parts per trillion (ppt) and perfluorooctane sulfonate (PFOS) at 4 ppt as well as four (4) other related compounds that are regulated under a Hazard Index approach. Currently under the draft NPDW regulations, Water Treatment Plant 2 (WTP 2) is not in compliance with the requirement.

PBCWUD has retained a consultant to perform the following engineering services to develop short term solutions for WTP 2 and to ensure compliance with the new regulations by 2027. The study will include engineering assistance of MIEX pilot and a desktop level evaluation of potential treatment options for WTP 2 with the following anticipated technologies:

- Alternative 1: Powder Activated Carbon (PAC) to be fed before the softening system
- Alternative 2: Granular Activated Carbon (GAC) to be used in the filtration system
- Alternative 3: GAC Contactors (post-filtration)
- Alternative 4: Ion Exchange (IX)
- Alternative 5: Nanofiltration (NF)
- Alternative 6: This will be a hybrid option which will consider utilizing the existing MIEX, softening, and media filtration process plus a 5.4 MGD nanofiltration (NF) system sized to treat the gap in treatment capacity for an overall 16.4 MGD production capacity
- Alternative 7: This will be a hybrid option which will consider utilizing the existing MIEX, softening, and media filtration process plus a 15 MGD nanofiltration (NF) system sized to treat the gap in treatment capacity for an overall 26 MGD production capacity

Each of the seven (7) alternatives will be summarized to include a description of the alternative, an updated process flow diagram showing points of chemical addition, estimated efficacy in treatment for the six (6) PFAS species of interest (PFAS6), footprint requirements at each facility, operational complexity, residual disposal considerations, hydraulic requirements for each facility (pumping or gravity flow), conceptual opinion of probable construction cost (OPCC), preliminary construction durations (to account for the 2027 compliance requirement) and recommendations on contracting mechanism for each alternative. Operations and maintenance cost estimates, and life cycle cost analyses will be provided based on assumed typical operating conditions.

Cost

\$96,467.00

Schedule

5/23/2023	Notice to Proceed
9/18/2023	Draft Report
11/30/2024	Final Report
1/31/2025	Project Closeout

Project Title: WTP 3 and 9 Expansion Study

Activities

The United States (US) Environmental Protection Agency (EPA) released draft National Primary Drinking Water Regulations with maximum contaminant limits (MCLs) for per-and polyfluoroalkyl substances (PFAS) in March of 2023. The Eastern water distribution system connects four (4) Water Treatment Plants (WTP): Nos. 2, 3, 8, and 9. WTPs 2 and 8 are currently lime softening facilities with limited per-and polyfluoroalkyl (PFAS) removal. The WTP 3 is has a permitted capacity of 30 MGD (million gallons per day) and WTP 9 has a permitted capacity of 26.88 MGD. Both WTPs 3 and 9 are membrane facilities that have demonstrated reduction in PFAS to below the proposed MCLs. As a result, PBCWUD has retained a consultant to provide engineering services to meet the near-term demand of the existing Eastern water distribution system.

This study includes a conceptual analysis to evaluate three alternatives for expanding the nanofiltration facilities at WTP 3 and WTP 9. Development of the alternatives will include the following evaluations:

- Evaluate up to 3 potential blending scenarios to increase capacity.
- Utilize projection software to evaluate increased capacity through the current membranes and impacts to finished water quality.
- Evaluate increasing recovery rates, potentially by increasing the second stage recovery rate, or adding a 3rd stage. This may require an interstage booster pump.
- Evaluate additional membranes/vessels to 1st and/or 2nd stage for an overall increase in production. This will likely require a change out of the existing membrane feed pumps.
- Develop a spreadsheet-based matrix, with varying flow rates through each WTP to simulate seasonal fluctuations.
- Each high-level alternative, for WTP 3 and WTP 9, will be summarized to include estimated efficacy in treatment, physical space requirements, hydraulic requirements, and conceptual opinion of probable construction cost for each facility.
- The results of the analysis will be summarized for the two WTPs. The study will describe assumptions and present the results of the expansion analysis.

Cost

\$99,874

Schedule

05/24/2023	Notice to Proceed
10/17/2023	Draft Report
8/30/2024	Final Report
10/30/2024	Project Closeout

Project Title: WTP 2 Expansion

Activities

The United States (US) Environmental Protection Agency (EPA) released draft National Primary Drinking Water Regulations (NPDW) with maximum contaminant limits (MCLs) for per-and polyfluoroalkyl substances (PFAS) in March of 2023. This includes perfluorooctanoic acid (PFOA) at 4 parts per trillion (ppt) and perfluorooctane sulfonate (PFOS) at 4 ppt as well as four (4) other related compounds that are regulated under a Hazard Index approach. Currently under the draft NPDW regulations, Water Treatment Plant No. 2 (WTP 2) is not in compliance with the requirement. PBCWUD is proactively planning and developing long-term solutions for WTP 2 to be compliant with the regulations.

PBCWUD is in the process of retaining a consultant to perform study and design of WTP 2 expansion. The selected Consultant will act as the Engineer of Record for the project. The project will include plant expansion and hardening, existing plant upgrades, treatment upgrades, generator improvements, process, reliability and chemical systems improvements, production wells and raw water pipelines, safety, electrical and instrumentation and controls improvements.

The study will determine process improvements, capacity alternatives, planning level budget estimates and to perform a comprehensive analysis of WTP 2 focusing on water quality, treatment capacity, membrane technology and potential implementation schedule for the identified improvements at WTP 2. The consultant will prepare the necessary construction documentation (e.g. general and special conditions, drawings, technical specifications, appendices, etc.) sufficient to bid and construct the above referenced improvements. In addition, the selected Consultant will prepare and coordinate the necessary permits for the improvements and provide bidding services.

Cost

\$1,934,485 Planning/Basis of Design Report
\$7,737,942 Design

Schedule

1/18/2024	Consultant Proposals Received
April 2024	Selection Committee Meeting
December 2024	Notice to Proceed for Basis of Design Report
December 2025	Planning Completion/Basis of Design Report
June 2026	Notice to Proceed for Design
June 2028	Design Completion
December 2028	Permit Completion

A RESOLUTION OF THE BOARD OF COUNTY COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA, RELATING TO THE STATE REVOLVING LOAN FUND FOR PROJECT NO. DW-5020C.

1 **WHEREAS**, Florida Statutes provide for loans to local government agencies to finance the
2 construction of water treatment facilities; and

3 **WHEREAS**, the State Revolving Fund loan priority list designates Project No. DW-
4 5020C as eligible for available funding; and

5 **WHEREAS**, Palm Beach County Board of County Commissioners intends to enter into a
6 loan agreement with the Department of Environmental Protection under the State Revolving
7 Fund for project financing.

8 NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COUNTY
9 COMMISSIONERS OF PALM BEACH COUNTY, FLORIDA, that:

10 **SECTION 1.**

11 The foregoing findings are incorporated herein by reference and made a part hereof.

12 **SECTION 2.**

13 The Palm Beach County Board of County Commissioners is authorized to apply for a
14 loan to finance the Project.

15 **SECTION 3.**

16 The Palm Beach County Mayor is hereby designated as the authorized representative to
17 provide the assurances and commitments required by the loan application.

18 **SECTION 4.**

19 *The Palm Beach County Board of County Commissioners hereby delegates authority to*
20 *the County Administrator or designee, which in this case shall be the Palm Beach County Water*
21 *Utilities Department (PBCWUD) Director, who is hereby designated as the authorized*
22 *representative to execute the loan agreement which will become a binding obligation in accordance*
23 *with its terms when signed by both parties. The PBCWUD Director is authorized to represent the*
24 *County in carrying out the County's responsibilities under the loan agreement. The PBCWUD*
25 *Director is authorized to delegate responsibility to appropriate County staff to carry out technical,*
26 *financial, and administrative activities associated with the loan agreement.*

27 **SECTION 5.**

28 The legal authority for borrowing moneys to construct this Project is Section 125.01,
29 Florida Statutes.

30 **SECTION 6.**

31 All resolutions or part of Resolutions in conflict with any of the provisions of this
32 Resolution are hereby repealed.

33 **SECTION 7.**

34 If any section or portion of a section of this Resolution proves to be invalid, unlawful, or
35 unconstitutional, it shall not be held to invalidate or impair the validity, force, or effect of any other
36 section or part of this Resolution.

37 **SECTION 8.**

38 This Resolution shall become effective immediately upon its passage and adoption.

39 The forgoing resolution was offered by _____, who moved its
40 adoption. The motions was seconded by _____, and upon being put to vote,
41 the vote was as follows:

Commissioner Maria Sachs, Mayor	_____
Commissioner Maria G. Marino, Vice Mayor	_____
Commissioner Gregg K. Weiss	_____
Commissioner Michael A. Barnett	_____
Commissioner Marci Woodward	_____
Commissioner Sara Baxter	_____
Commissioner Mack Bernard	_____

The Mayor thereupon declared the resolution was duly passed and adopted on this _____ day of _____, 2024.

PALM BEACH COUNTY, FLORIDA
BY ITS BOARD OF COUNTY
COMMISSIONERS

JOSEPH ABRUZZO, CLERK OF THE
CIRCUIT COURT & COMPTROLLER,
PALM BEACH COUNTY

BY: _____
DEPUTY CLERK

APPROVED AS TO FORM AND
LEGAL SUFFICIENCY

BY:  _____
COUNTY ATTORNEY