

### PROJECT FUNDING REQUEST

**BOARD DATE:** April 11, 2024 **Team Manager:** Nancy Richards

### **ACTION REQUESTED**

Consider approving by resolution a request from the Cypress Forest Public Utility District (Harris County) for \$10,400,000 in financing from the Texas Water Development Fund for planning, design, and construction of a sanitary sewer rehabilitation project.

STAFF RECOMME	NDATION
Approve	No Action

### **BACKGROUND**

The Cypress Forest Public Utility District (District) is located in Harris County approximately 27 miles northwest of downtown Houston. The District provides water and wastewater services to a population of approximately 6,890 residents and 2,000 connections.

### PROJECT NEED AND DESCRIPTION

The District has initiated the rehabilitation of the sanitary sewer collection system. The existing sanitary sewer pipes are mostly made up of ABS Truss Pipe. The primary concern is potentially leaching harmful substances from ABS pipes into water supplies and soil. The subdivision sections currently targeted for pipe rehabilitation have exceeded their useful life expectancy and pose a threat to the surrounding environment in case of failure.

The District has planned to rehabilitate all the aging sanitary sewer infrastructure by proactively implementing a preventive program of repairs. The project is comprised of ten sections with a goal to initiate rehabilitation of the neighborhood collection lines, starting from the older sections and progressing to the newer ones. Sections one through three have been completed with local funds and the District plans to continue the rehabilitation of sections four through ten using TWDB funding. Television inspections of the pipes will be conducted, and the pipe conditions analyzed to determine the exact scope of repair or replacement. All pipes will be replaced or repaired in place, using trenchless technologies like slip-lining, cured-in-place lining, or pipe bursting technologies. As part of the rehabilitation scope, all existing manholes will be evaluated for relining or replacement as needed. Any cleanouts at the terminus of sanitary sewer collection lines will be replaced by new manholes.

### **PROJECT SCHEDULE**

Task	Schedule Date
Closing	September 1, 2024
Engineering Feasibility Report Completion	October 31, 2024
(End of Planning Phase)	
Design Phase Completion	October 31, 2024
Start of Construction	December 15, 2024
Construction Completion	December 31, 2027

### **LEGAL/SPECIAL CONDITIONS**

• Conversion and conveyance

### Attachments:

- 1. Financial Review
- 2. Project Budget
- 3. Resolution (24- )
- 4. Water Conservation Review
- 5. Location Map

# Financial Review Cypress Forest PUD

Risk Score: 2A Audit Reviewed: FY 2023

### **Key Indicators**

Indicator	Result	Benchmark
Population Growth, Average Annual 2010-2020	County: 1.46%	State: 1.49%
Top 10 Customers % of Total Revenue	9%	10-15%
Median Household Income as % of State	237%	100%
Days of Cash on Hand (3-year Average)	401 days	30-149 days
Net Fixed Assets/ Annual Depreciation	16 years	12-24 years
Debt Service Coverage Ratio	2.09x	1.1x
Debt-to-Operating Revenues	5.43x	4.00-5.99x
Unemployment Rate (December 2023)	County: 3.80%	State: 3.5%
Working Capital Ratio	3.16	> 1.0
Cash Balance Ratio	-21.04%	0-9.99%

### **Key Risk Score Strengths**

- The top 10 water customers make up 9 percent of the total water system revenues, indicating the District is not reliant on a small number of customers to support its water system.
- A high working capital ratio provides the District with ample resources to cover short-term liabilities and shows a strong liquidity position.
- The District's revenues provide adequate coverage for the existing and proposed debt.

### **Key Risk Score Concerns**

The District's cash balance ratio has decreased, primarily as a result of the
District funding capital improvement projects with cash in the General Fund.
However, the District's days of cash on hand exceeds the benchmark, indicating
the District can pay its expenses with the cash it has available.

### **PLEDGE**

Legal Pledge Name	Waterworks and Sewer System Revenues
Type of Pledge	☐ Tax ☑Revenue ☐Tax & Revenue ☐Contract ☐Other
Revenue Pledge Level	⊠First □Second □Third □N/A

### **RATES AND CHARGES**

Average Residential Use	Gallons/Month	Current Rates	Projected Rates (Year 2023)	Current Househol d Cost Factor	Projected Household Cost Factor
Water	17,604	\$26.90	\$26.90	0.01	0.61
Wastewater	N.A.	\$48.00	\$48.00	0.61	0.61

### Cost Savings

Based on a 30-year maturity schedule and current interest rates, the District could save approximately \$825,476 over the life of the financing.



### **Project Data Summary**

•	
Responsible Authority	Cypress Forest PUD
Program	WDF
Commitment Number	L1001749
Project Number	21831
List Year	2023
Type of Pledge	Revenue Pledge
Pledge Level (if applicable)	First Lien
Legal Description	\$10,400,000 Cypress Forest Public Utility District Water and Sewer System Revenue Bonds, Proposed Series 2024
Tax-exempt or Taxable	Tax-Exempt
Refinance	No
Outlay Requirement	No
Disbursement Method	Escrow
Outlay Type	Outlay <> Escrow Release
Qualifies as Disadvantaged	No
Financial Managerial & Technical Complete	N/A
Phases Funded	Planning, Design, and Construction
Pre-Design	Yes
Project Consistent with State Water Plan	N/A
Water Conservation Plan	Adopted
Overall Risk Score	2A

PROJECT TEAM				
Team Manager	Financial Analyst	Engineering Reviewer	Environmental Reviewer	Attorney
Nancy Richards	Chelsea Duran	Will Conte	Britt Paredes	Breann Hunter

### ISSUE BEING EVALUATED FOR ILLUSTRATION PURPOSES ONLY CYPRESS FOREST PUD

#### \$10,400,000 CYPRESS FOREST PUBLIC UTILITY DISTRICT WATER AND SEWER REVENUE BONDS, PROPOSED SERIES 2024

Dated Date: 9/1/2024 Source: WDF 9/1/2024 4.47% Delivery Date: Rate: First Interest: 3/1/2025 IUP Year: 2023 First Principal: 3/1/2026 Case: System Revenues Last Principal: 3/1/2054 \$0

Last Principal:3/1/2054Admin.Fee:\$0Fiscal Year End:09/30Admin. Fee Payment Date:N/A

Required Coverage: 1.0

	CURRENT	CURRENT	\$10,400,000 ISSUE					
FISCAL	NET SYSTEM	DEBT	PRINCIPAL	INTEREST	INTEREST	TOTAL	TOTAL DEBT	
YEAR	REVENUES	SERVICE	PAYMENT	RATE	PAYMENT	PAYMENT	SERVICE	COVERAGE
2025	\$1,268,866	\$212,175	\$0	-	\$439,272	\$439,272	\$651,447	1.95
2026	\$1,268,866	-	170,000	3.30%	436,467	606,467	606,467	2.09
2027	\$1,268,866	-	180,000	3.21%	430,773	610,773	610,773	2.08
2028	\$1,268,866	-	190,000	3.13%	424,910	614,910	614,910	2.06
2029	\$1,268,866	-	195,000	3.10%	418,914	613,914	613,914	2.07
2030	\$1,268,866	-	205,000	3.10%	412,714	617,714	617,714	2.05
2031	\$1,268,866	-	215,000	3.11%	406,193	621,193	621,193	2.04
2032	\$1,268,866	-	225,000	3.10%	399,363	624,363	624,363	2.03
2033	\$1,268,866	-	240,000	3.11%	392,143	632,143	632,143	2.01
2034	\$1,268,866	-	250,000	3.17%	384,449	634,449	634,449	2.00
2035	\$1,268,866	-	260,000	3.37%	376,105	636,105	636,105	1.99
2036	\$1,268,866	-	275,000	3.60%	366,774	641,774	641,774	1.98
2037	\$1,268,866	-	290,000	3.79%	356,329	646,329	646,329	1.96
2038	\$1,268,866	-	300,000	3.98%	344,863	644,863	644,863	1.97
2039	\$1,268,866	-	315,000	4.11%	332,420	647,420	647,420	1.96
2040	\$1,268,866	-	330,000	4.20%	319,017	649,017	649,017	1.96
2041	\$1,268,866	-	350,000	4.28%	304,597	654,597	654,597	1.94
2042	\$1,268,866	-	365,000	4.35%	289,168	654,168	654,168	1.94
2043	\$1,268,866	-	385,000	4.40%	272,759	657,759	657,759	1.93
2044	\$1,268,866	-	400,000	4.44%	255,409	655,409	655,409	1.94
2045	\$1,268,866	-	420,000	4.63%	236,806	656,806	656,806	1.93
2046	\$1,268,866	-	440,000	4.63%	216,897	656,897	656,897	1.93
2047	\$1,268,866	-	465,000	4.63%	195,946	660,946	660,946	1.92
2048	\$1,268,866	-	485,000	4.63%	173,954	658,954	658,954	1.93
2049	\$1,268,866	-	510,000	4.64%	150,894	660,894	660,894	1.92
2050	\$1,268,866	-	535,000	4.73%	126,409	661,409	661,409	1.92
2051	\$1,268,866	-	560,000	4.73%	100,513	660,513	660,513	1.92
2052	\$1,268,866	-	585,000	4.73%	73,433	658,433	658,433	1.93
2053	\$1,268,866	-	615,000	4.73%	45,053	660,053	660,053	1.92
2054	\$1,268,866	-	645,000	4.73%	15,254	660,254	660,254	1.92
		\$212,175	\$10,400,000		\$8,697,794	\$19,097,794	\$19,309,969	

AVERAGE (MATURITY) LIFE	18.73 YEARS
NET INTEREST RATE	4.466%
COST SAVINGS	\$825,476
AVERAGE ANNUAL REQUIREMENT	\$636,593

Disclaimer: This is a working document and is provided as a courtesy. All information contained herein, including the proposed interest rate, is subject to change upon further review of the TWDB in accordance with 31 Texas Administrative Code Chapters 363, 371, 375, or 384, as applicable. The TWDB does not function as a financial advisor to anyone in connection with this financing. The information contained in this document is used by TWDB staff to analyze the application for financing is illustrative only and does not constitute any guaranty of future rates. The TWDB makes no claim regarding the applicability of the information at closing, at which time actual rates will be set.



# Project Budget Summary Cypress Forest PUD 21831 - SANITARY SEWER REHAB

Budget Items	This Commitment	Total
Construction		
Construction	\$6,900,000	\$6,900,000
Subtotal for Construction		
	\$6,900,000	\$6,900,000
Basic Engineering Services		
Construction Engineering	\$312,500	\$312,500
Design	\$500,000	\$500,000
Planning	\$110,000	\$110,000
Subtotal for Basic Engineering Services	\$922,500	\$922,500
Special Services		
Project Management (by engineer)	\$10,000	\$10,000
Subtotal for Special Services	\$10,000	\$10,000
Fiscal Services		
Bond Counsel	\$208,000	\$208,000
Bond Reserve Fund	\$693,000	\$693,000
Capitalized Interest	\$617,000	\$617,000
Financial Advisor	\$208,000	\$208,000
Fiscal/Legal	\$25,000	\$25,000
Issuance Costs	\$19,000	\$19,000
Subtotal for Fiscal Services	\$1,770,000	\$1,770,000
Other		
Project Legal Expenses	\$25,000	\$25,000
Subtotal for Other	\$25,000	\$25,000
Contingency		
Contingency	\$772,500	\$772,500
Subtotal for Contingency	\$772,500	\$772,500
Total	\$10,400,000	\$10,400,000

A RESOLUTION OF THE TEXAS WATER DEVELOPMENT BOARD
APPROVING AN APPLICATION FOR FINANCIAL ASSISTANCE IN THE AMOUNT OF
\$10,400,000 TO CYPRESS FOREST PUBLIC UTILITY DISTRICT
FROM THE FINANCIAL ASSISTANCE ACCOUNT OF
THE TEXAS WATER DEVELOPMENT FUND II
THROUGH THE PROPOSED PURCHASE OF
\$10,400,000 CYPRESS FOREST PUBLIC UTILITY DISTRICT, WATER AND SEWER REVENUE
BONDS
PROPOSED SERIES 2024

(24 - )

#### Recitals:

The Cypress Forest Public Utility District, located in Harris County, Texas (District), has filed an application for financial assistance in the amount of \$10,400,000 from the Financial Assistance Account of the Texas Water Development Fund II, established by Texas Water Code § 17.959, to finance wastewater system improvements, identified as Project No. 21831.

The District seeks financial assistance from the Texas Water Development Board (TWDB) in the amount of \$10,400,000 through the TWDB's purchase of \$10,400,000 Cypress Forest Public Utility District, Water and Sewer Revenue Bonds, Proposed Series 2024 (together with all authorizing documents (Obligations)), all as is more specifically set forth in the application and in recommendations of the TWDB's staff.

The District has offered a pledge of first lien on the water and sewer system revenues as sufficient security for the repayment of the Obligations.

The commitment is approved for funding under the TWDB's pre-design funding option, and initial and future releases of funds are subject to 31 TAC § 363.16.

In accordance with Texas Water Code § 17.275, the TWDB has considered all matters required by law and in particular the following:

- 1. The water quality needs of the waters into which effluent from the treatment works will be discharged, the benefit of the treatment works to such water quality needs, the relationship of the treatment works to the overall, statewide water quality needs, and the relationship of the treatment works to water quality planning for the state.
- 2. The availability of revenue to the political subdivision, from all sources, for the ultimate repayment of the cost of the treatment works, including interest.

3. The District has been designated, pursuant to Texas Water Code § 26.082, to provide a regional system to serve all or part of the waste disposal needs of a defined area, the development of such systems being the declared policy of the legislature.

### Findings:

- 1. The public interest will benefit from state assistance in the financing of this project, in accordance with Texas Water Code § 17.277(a).
- 2. The District has adopted and implemented a water conservation program for the more efficient use of water that will meet reasonably anticipated local needs and conditions and that incorporates practices, techniques or technology prescribed by the Texas Water Code and TWDB's rules.
- 3. The application and financial assistance requested meet the requirements of Texas Water Code, Chapter 17, Subchapters E, F, and L, and 31 TAC Chapter 363, Subchapter A.
- 4. The current water audit required by Texas Water Code § 16.0121 has been completed by the District and filed with the TWDB, in accordance with Texas Water Code § 16.053(j).
- 5. Any treatment works to be financed under the application will consider costeffective innovative, nonconventional methods of treatment such as rock reed,
  root zone, ponding, irrigation, or other methods that may have been developed by
  the National Aeronautics and Space Administration or the Tennessee Valley
  Authority, in accordance with Texas Water Code § 17.189.

NOW THEREFORE, based on these findings, the TWDB resolves as follows:

A commitment is made by the TWDB to the Cypress Forest Public Utility District for financial assistance in the amount of \$10,400,000 from the Financial Assistance Account of the Texas Water Development Fund II, to be evidenced by the TWDB's purchase of \$10,400,000 Cypress Forest Public Utility District, Water and Sewer Revenue Bonds, Proposed Series 2024. This commitment will expire on September 30, 2024.

Such commitment is conditioned as follows:

### **Standard Conditions:**

1. This commitment is contingent on a future sale of bonds by the TWDB or on the availability of funds on hand.

- This commitment is contingent upon the issuance of a written approving opinion of the Attorney General of the State of Texas stating that the District has complied with all of the requirements of the laws under which said Obligations were issued; that said Obligations were issued in conformity with the Constitution and laws of the State of Texas; and that said Obligations are valid and binding obligations of the District.
- 3. This commitment is contingent upon the District's compliance with all applicable laws, rules, policies, and guidance (as these may be amended from time to time to adapt to a change in law, in circumstances, or any other legal requirement), including but not limited to 31 TAC Chapter 363.
- 4. The Obligations must provide that the Obligations can be called for early redemption (Early Redemption) only in inverse order of maturity, and on any date beginning on or after the first interest payment date which is 10 years from the dated date of the Obligations, at a redemption price of par, together with accrued interest to the date fixed for redemption.
- 5. The Obligations must include a provision wherein the District, or an obligated person for whom financial or operating data is presented to the TWDB in the application for financial assistance either individually or in combination with other issuers of the District's Obligations or obligated persons, will, at a minimum, covenant to comply with requirements for continuing disclosure on an ongoing basis substantially in the manner required by Securities and Exchange Commission (SEC) in 17 CFR § 240.15c2-12 (Rule 15c2-12) and determined as if the TWDB were a Participating Underwriter within the meaning of such rule, such continuing disclosure undertaking being for the benefit of the TWDB and the beneficial owners of the District's Obligations, if the TWDB sells or otherwise transfers such Obligations, and the beneficial owners of the TWDB's bonds if the District is an obligated person with respect to such bonds under SEC Rule 15c2-12.
- 6. The Obligations must contain a provision requiring the District to levy a tax and/or maintain and collect sufficient rates and charges to produce system revenues in an amount necessary to meet the debt service requirements of all outstanding obligations and to maintain the funds established and required by the Obligations.
- 7. The Obligations must include a provision requiring the City to use any surplus loan proceeds from the Obligations remaining after completion of a final accounting in a manner as approved by the Executive Administrator.
- 8. The Obligations must contain a provision that the TWDB may exercise all remedies available to it in law or equity, and any provision of the Obligations that

restricts or limits the TWDB's full exercise of these remedies shall be of no force and effect.

- 9. Financial assistance proceeds are public funds and, as such, the Obligations must include a provision requiring that these proceeds shall be held at a designated state depository institution or other properly chartered and authorized institution in accordance with the Public Funds Investment Act, Government Code, Chapter 2256 and the Public Funds Collateral Act, Government Code, Chapter 2257.
- 10. Financial assistance proceeds shall not be used by the District when sampling, testing, removing or disposing of contaminated soils and/or media at the project site. The Obligations shall include an environmental indemnification provision wherein the District agrees to indemnify, hold harmless and protect the TWDB from any and all claims, causes of action or damages to the person or property of third parties arising from the sampling, analysis, transport, storage, treatment and disposition of any contaminated sewage sludge, contaminated sediments and/or contaminated media that may be generated by the District, its contractors, consultants, agents, officials and employees as a result of activities relating to the project to the extent permitted by law.
- 11. Before closing, the District shall submit documentation evidencing the adoption and implementation of sufficient system rates and charges or, if applicable, the levy of an interest and sinking tax rate sufficient for the repayment of all system debt service requirements.
- 12. Before closing, and if required under the TWDB's financial assistance program and not previously provided with the application, the District shall submit an executed engineering contract as appropriate for the project scope of work, and an executed financial advisor contract and executed bond counsel contract as appropriate for the work to be performed in obtaining the TWDB's financial assistance for the project, in a form and substance that are satisfactory to the Executive Administrator. Fees to be reimbursed under any consulting contract must be reasonable in relation to the services performed, must be reflected in the contract, and must be acceptable to the Executive Administrator.
- 13. Before closing, when any portion of financial assistance proceeds are to be held in escrow or in trust, the District shall execute an escrow agreement or trust agreement, approved as to form and substance by the Executive Administrator, and shall submit that executed agreement to the TWDB.
- 14. The Executive Administrator may require that the District execute a separate financing agreement in form and substance acceptable to the Executive Administrator.

- 15. The District shall abide by all applicable construction contract requirements related to the use of iron and steel products produced in the United States, as required by Texas Government Code, Chapter 2252, Subchapter F and Texas Water Code § 17.183.
- 16. The District must immediately notify TWDB, in writing, of any suit against it by the Attorney General of Texas under Texas Penal Code § 1.10(f) (related to federal laws regulating firearms, firearm accessories, and firearm ammunition).

### Conditions Related To Tax-Exempt Status:

- 17. Before closing, the District's bond counsel must prepare a written opinion that states that the interest on the Obligations is excludable from gross income or is exempt from federal income taxation. Bond counsel may rely on covenants and representations of the District when rendering this opinion.
- 18. Before closing, the District's bond counsel must prepare a written opinion that states that the Obligations are not "private activity bonds." Bond counsel may rely on covenants and representations of the District when rendering this opinion.
- 19. The Obligations must include a provision prohibiting the District from using the proceeds of this financial assistance in a manner that would cause the Obligations to become "private activity bonds" within the meaning of § 141 of the Internal Revenue Code of 1986, as amended (Code) and the Treasury Regulations promulgated thereunder (Regulations).
- 20. The Obligations must provide that no portion of the proceeds of the loan will be used, directly or indirectly, in a manner that would cause the Obligations to be "arbitrage bonds" within the meaning of § 148(a) of the Code and Regulations, including to acquire or to replace funds which were used, directly or indirectly, to acquire Nonpurpose Investments (as defined in the Code and Regulations) that produce a yield materially higher than the yield on the TWDB's bonds that are issued to provide financing for the loan (Source Series Bonds), other than Nonpurpose Investments acquired with:
  - a. proceeds of the TWDB's Source Series Bonds invested for a reasonable temporary period of up to three (3) years after the issue date of the Source Series Bonds until such proceeds are needed for the facilities to be financed;
  - amounts invested in a bona fide debt service fund, within the meaning of § 1.148-1(b) of the Regulations; and

- c. amounts deposited in any reasonably required reserve or replacement fund to the extent such amounts do not exceed the least of maximum annual debt service on the Obligations, 125% of average annual debt service on the Obligations, or 10 percent of the stated principal amount (or, in the case of a discount, the issue price) of the Obligations.
- 21. The Obligations must include a provision requiring the District take all necessary steps to comply with the requirement that certain amounts earned on the investment of gross proceeds of the Obligations be rebated to the federal government in order to satisfy the requirements of § 148 of the Code. The Obligations must provide that the District will:
  - a. account for all Gross Proceeds, as defined in the Code and Regulations, (including all receipts, expenditures and investments thereof) on its books of account separately and apart from all other funds (and receipts, expenditures and investments thereof) and retain all records of such accounting for at least six years after the final Computation Date. The District may, however, to the extent permitted by law, commingle Gross Proceeds of its loan with other money of the District, provided that the District separately accounts for each receipt and expenditure of such Gross Proceeds and the obligations acquired therewith;
  - b. calculate the Rebate Amount, as defined in the Code and Regulations, with respect to its loan, not less frequently than each Computation Date, in accordance with rules set forth in § 148(f) of the Code, § 1.148-3 of the Regulations, and the rulings thereunder. The District shall maintain a copy of such calculations for at least six years after the final Computation Date;
  - c. as additional consideration for the making of the loan, and in order to induce the making of the loan by measures designed to ensure the excludability of the interest on the TWDB's Source Series Bonds from the gross income of the owners thereof for federal income tax purposes, pay to the United States the amount described in paragraph (b) above within 30 days after each Computation Date; and
  - d. exercise reasonable diligence to assure that no errors are made in the calculations required by paragraph (b) and, if such error is made, to discover and promptly to correct such error within a reasonable amount of time thereafter, including payment to the United States of any interest and any penalty required by the Regulations.
- 22. The Obligations must include a provision prohibiting the District from taking any action that would cause the interest on the Obligations to be includable in gross income for federal income tax purposes.

- 23. The Obligations must provide that the District will not cause or permit the Obligations to be treated as "federally guaranteed" obligations within the meaning of § 149(b) of the Code.
- 24. The Obligations must contain a covenant that the District will refrain from using the proceeds of the Obligations to pay debt service on another issue of obligations of the borrower in contravention of section 149(d) of the Code (related to "advance refundings").
- 25. The transcript must include a No Arbitrage Certificate or similar Federal Tax Certificate setting forth the District's reasonable expectations regarding the use, expenditure and investment of the proceeds of the Obligations.
- 26. The transcript must include evidence that the information reporting requirements of § 149(e) of the Code will be satisfied. This requirement may be satisfied by filing an IRS Form 8038 with the Internal Revenue Service. In addition, the applicable completed IRS Form 8038 or other evidence that the information reporting requirements of § 149(e) have been satisfied must be provided to the Executive Administrator within fourteen (14) days of closing. The Executive Administrator may withhold the release of funds for failure to comply.
- 27. The Obligations must provide that neither the District nor a related party thereto will acquire any of the TWDB's Source Series Bonds in an amount related to the amount of the Obligations to be acquired from the District by the TWDB.
- 28. Before closing, the District shall provide certification that the average weighted maturity of the Obligations purchased by the TWDB does not exceed 120% of the average reasonably expected economic life of the Project.

### Pledge Conditions For The Loan:

- 29. The Obligations must require the accumulation of a reserve fund of no less than average annual debt service requirements, to be accumulated in equal monthly installments over the initial sixty (60) months following the issuance of the Obligations.
- 30. If the District has existing revenue obligations with the same pledge of security as the proposed Obligations that will remain outstanding after any loan(s) made by the TWDB pursuant to this commitment, the lien or liens securing the Obligations issued to the TWDB shall be at least on a parity with lien or liens securing such outstanding obligations.

31. The Obligations must contain a provision providing that additional revenue obligations may only be incurred if net system revenues are at least 1.25 times the average annual debt service requirements after giving effect to the additional obligations when net revenues are determined from the last completed fiscal year or a 12 consecutive calendar month period ending not more than ninety (90) days preceding the adoption of the additional obligations as certified by a certified public accountant.

PROVIDED, however, the commitment is subject to the following special conditions:

### **Special Conditions:**

- 32. The District must notify the Executive Administrator in writing thirty (30) days prior to taking any actions to alter its legal status in any manner.
- 33. The Obligations must include a provision requiring that the District notify the Executive Administrator in writing prior to any action by it to convey its Obligations held by the TWDB to another entity; the conveyance and the assumption of the Obligations must be approved by the TWDB.

APPROVED and ordered of record this, the 11th day of April, 2024.

	TEXAS WATER DEVELOPMENT BOARD
	Brooke T. Paup, Chairwoman
	DATE SIGNED:
ATTEST:	
Bryan McMath, Interim Execu	utive Administrator

Water Wastewater Other	ater WATER CONSERVATION REVIEW			
Entity: Cypress Forest Public Uti	lity District	Other entity:		
WATER CONSERVATION PLAN DAT	Appro	ovable Adopted		
	Total GPCD	Residential GPCD	Water Loss GPCD	
Baseline	156	154	9	
5-year Goal	150 150		15	
10-year Goal	150 150		15	
WATER LOSS AUDIT YEAR:	2022			
Service connections: <u>953</u> Retail population: <u>2</u> ,658	Length of main lines (miles Connections per mil	,	Loss GCD: <u>6</u> Doss GPCD: <u>1</u>	
1 – Infrastructure Leakage Index only	applicable if > 16 connections	per mile and > 3,000 service o	connections	
WATER LOSS THRESHOLDS		Wat	er Loss Project:	
	[			

Threshold Type: NA

Wholesale Adjusted:

NA	NA	NA	per day NA	NA	NA
Loss Gallons per connection per day	Gallons per mile per day	Gallons per connection per day	Loss Threshold Gallons per connection	Threshold Gallons per mile per day	Threshold Gallons per connection per day
Apparent	Real Loss	Real Loss	Apparent	Real Loss	Real Loss

Does the applicant meet Water Loss Threshold Requirements?

### ADDITIONAL INFORMATION

The district's water conservation plan includes strategies for reducing the consumption of water, reducing the loss or waste of water, improving the efficiency in water use, or increasing recycling and reuse of water. These strategies include completing an initial system review; taking measures to determine water loss, which may include visual inspections and monthly or annual audits for illegal connections or abandoned services; and providing educational activities such as distribution of conservation brochures and conducting school programs. The district will measure progress annually towards meeting targets and goals.

### STAFF NOTES AND RECOMMENDATIONS

In accordance with 31 TAC §358.6(f), review of a retail public utility's water loss in conjunction with an application for financial assistance is limited to water supply projects. This application for financial assistance is for a wastewater project; therefore, water loss thresholds are not applicable.

### **DEFINITIONS**

**Adopted** refers to a water conservation plan that meets the minimum requirements of the water conservation plan rules and has been formally approved and adopted by the applicant's governing body.

**Apparent losses** are paper losses that occur when the water reaches a customer, but the volume is not accurately measured and/or recorded due to unauthorized consumption, customer meter inaccuracy, or billing system and collection data errors.

**Approvable** refers to a water conservation plan that substantially meets the minimum requirements of the water conservation plan rules but has not yet been adopted by the applicant's governing body.

**Best Management Practices** are voluntary efficiency measures that save a quantifiable amount of water, either directly or indirectly, and that can be implemented within a specific time frame.

GPCD means gallons per capita per day.

GCD means gallons per connection per day.

Infrastructure Leakage Index (ILI) is the current annual real loss divided by the unavoidable annual real loss (theoretical minimum real loss) and only applies to utilities with more than 3,000 connections and a connection density of more than 16 connections per mile. The ILI is recommended to be less than 3 if water resources are greatly limited and difficult to develop, between 3 and 5 if water resources are adequate to meet long-term needs but water conservation is included in long-term water planning, and between 5 and 8 if water resources are plentiful, reliable, and easily extracted. The ILI is recommended as a bench marking tool, but until there is increased data validity of the variables used in the calculation, the ILI should be viewed with care.

NA means not applicable.

**Real losses** are the physical losses, largely leakage, from the infrastructure: mains, valves, and storage tank overflows. Real loss constitutes background leakage (unreported and difficult to detect), unreported leakage (leaks that do not surface but could be detected), and reported leakage (leaks that often surface and those that are detected by the utility through leak detection).

**Residential GPCD** is the amount of residential water use (single and multi-family customer use) divided by the residential population divided by 365.

Total GPCD is the amount of total system input volume divided by the retail population divided by 365.

**Total water loss** is the sum of the apparent and real water losses.

**Water loss** is the difference between the input volume and the authorized consumption within a water system. Water Loss consists of real losses and apparent losses.

Water Loss GPCD is the amount of water loss divided by the retail population divided by 365.

Water Loss per Connection per Day Calculated as the water loss volume divided by the number service connections divided by 365. This indicator allows for reliable performance tracking in the water utility's efforts to reduce water losses. It replaces water loss percentage.

Water Loss Thresholds are levels of real and apparent water loss determined by the size and connection density of a retail public utility, at or above which a utility receiving financial assistance from the Texas Water Development Board must use a portion of that financial assistance to mitigate the utility's system water loss.

Wholesale Adjusted represents that some utilities provide large volumes of wholesale water to other providers that travel through the general distribution system, so a calculation has been established to adjust for that volume of wholesale water. These adjustments are only applicable for use in determining whether a utility meets or exceeds water loss thresholds in review of their application for financial assistance. These adjustments should not be used for performance tracking or benchmarking.



## **Cypress Forest PUD Harris County**

