

Water Purification District  
G Fund - 2023-2027 Capital Plan

**South Plant Preliminary Treatment Building Rebuild Project**

Project Number: WPD-18-01  
 Project Status:          New          Existing   1   Amended  
 Amendment(s):  
     2020-2024 changed funding sources.  
     2023-2027 push out start date.

The South plant was constructed in the early 1970's with much of the facility built on pilings. The Preliminary Treatment building, though built on bedrock, has shifted horizontally causing two major cracks in two walls supporting the concrete roof panels each weighing over 2,000 lbs. The District will perform an engineering evaluation to determine what step need to be taken to rebuild the building.

	Year	Pre 2022	2022	2023	2024	2025	2026	2027	Total
County Debt (Bonds & BANS)						0.600			0.600
Appropriations						0.050			0.050
State Reimbursement									-
Federal Reimbursement									-
Other		-	-	-	-	-	-	-	-
<b>Total County Cost</b>		-	-	-	-	0.650	-	-	0.650

**Clarifier Upgrade Project**

Project Number: WPD-20-01  
 Project Status:          New          Existing   1   Amended  
 Amendment(s):  
     2021-2025 push out start date  
     2023-2027 increase project costs.

Project to include the study, design, and construction of improvements to the existing primary and secondary clarifiers at both the North and South treatment plants. The clarifiers are required for the removal of solids and are a critical process for meeting permit compliance. The majority of the clarifiers mechanical systems are original to both facilities and at the end of their useful life.

	Year	Pre 2022	2022	2023	2024	2025	2026	2027	Total
County Debt (Bonds & BANS)				0.250	7.500	6.700			14.450
Appropriations			0.050						0.050
State Reimbursement									-
Federal Reimbursement									-
Other		-	-	-	-	-	-	-	-
<b>Total County Cost</b>		-	0.050	0.250	7.500	6.700	-	-	14.500

**High Voltage Upgrade**

Project Number: WPD-20-02  
 Project Status:          New          Existing   1   Amended  
 Amendment(s):  
     2021-2025 push out start date.  
     2023-2027 push out start date, and increase project cost.

Project to include the study, design, and construction of improvement to the high voltage electrical service equipment at both the North and South treatment plants. Electric service is critical to the operations of both facilities and the high voltage equipment is original to both facilities and at the end of its useful life.

	Year	Pre 2022	2022	2023	2024	2025	2026	2027	Total
County Debt (Bonds & BANS)					1.950	2.000			3.950
Appropriations				0.050					0.050
State Reimbursement									-
Federal Reimbursement									-
Other		-	-	-	-	-	-	-	-
<b>Total County Cost</b>		-	-	0.050	1.950	2.000	-	-	4.000

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**Septage and FOG Receiving Station**

Project Number: WPD-22-01  
 Project Status:            New            Existing   1   Amended  
 Amendment(s):  
 2023-2027 push out start date.

Project to include the study, design and construction of a new septage and Fats, Oils and Grease (FOG) receiving stations. Study will evaluate alternatives for both the septage receiving station and the FOG receiving station. For the FOG system a brown grease separation process that can produce a biodiesel feed stock will be evaluated against directly injecting the grease into the sludge incinerators. Engineering services are estimated to be \$500,000 and the construction cost are estimated to be \$3,500,000.

	Year	Pre 2022	2022	2023	2024	2025	2026	2027	Total
County Debt (Bonds & BANS)				1.500	2.450				3.950
Appropriations			0.050						0.050
State Reimbursement									-
Federal Reimbursement									-
Other									-
<b>Total County Cost</b>		-	0.050	1.500	2.450	-	-	-	4.000

**North Plant Mechanical Bar Screen Replacement**

Project Number: WPD-22-02  
 Project Status:            New   1   Existing            Amended  
 Amendment(s):

Project to include the study, design and construction of a new mechanical bar screens at the North Plant. The study will evaluate the use of narrower screen openings to provide more efficient screening removal and provide additional protection to downstream equipment. Screens are anticipated to be similar in design to the screens that are currently being installed at the South Plant. Engineering services are estimated to be \$400,000 and the construction cost are estimated to be \$2,600,000.

	Year	Pre 2022	2022	2023	2024	2025	2026	2027	Total
County Debt (Bonds & BANS)				0.050	0.950	2.000			3.000
Appropriations									-
State Reimbursement									-
Federal Reimbursement									-
Other		-							-
<b>Total County Cost</b>		-	-	0.050	0.950	2.000	-	-	3.000

**Sludge Processing Improvements**

Project Number: WPD-22-03  
 Project Status:            New            Existing   1   Amended  
 Amendment(s):  
 2023-2027 push out start date and increase project costs.

Project to include the study, design and construction of improvements to the existing sludge processing systems. The study will evaluate the option of consolidating both South Plant and North Plant sludge operations to the North Plant. This includes but is not limited to engineering services, a new sludge forcemain and pump system to pump sludge from the South Plant to the North Plant and improvements to the existing North Plant sludge incinerators.

	Year	Pre 2022	2022	2023	2024	2025	2026	2027	Total
County Debt (Bonds & BANS)				4.900	10.000	9.000			23.900
Appropriations			0.100						0.100
State Reimbursement									-
Federal Reimbursement									-
Other									-
<b>Total County Cost</b>		-	0.100	4.900	10.000	9.000	-	-	24.000

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**North and South Plant HVAC Upgrades**

Project Number: WPD-23-01

Project Status: 1 New          Existing          Amended

Amendment(s):

Project to include the study, design, and construction of improvement to existing HVAC systems at both the North and South treatment plants. Existing HVAC systems at both facilities are at the end of thier useful life.

	Year	Pre 2022	2022	2023	2024	2025	2026	2027	Total
County Debt (Bonds & BANS)									-
Appropriations				0.750	0.500				1.250
State Reimbursement									-
Federal Reimbursement									-
Other									-
<b>Total County Cost</b>		-	-	0.750	0.500	-	-	-	1.250

**Water Purification District Capital Plan Summary: All Projects**

New Projects: 1

Existing Projects: 1

Amended Projects: 5

	Year	Pre 2022	2022	2023	2024	2025	2026	2027	Total
County Debt (Bonds & BANS)		-	-	6.700	22.850	20.300	-	-	49.850
Appropriations		-	0.200	0.800	0.500	0.050	-	-	1.550
State Reimbursement		-	-	-	-	-	-	-	-
Federal Reimbursement		-	-	-	-	-	-	-	-
Other		-	-	-	-	-	-	-	-
<b>Total County Cost</b>		-	0.200	7.500	23.350	20.350	-	-	51.400