

GFUND - Water Purification District

North and South Return and Waste Activated Sludge Pump Replacement Project

Replacement of 40 year old pumping equipment that is at the end of useful life which includes the return and waste activated pumping systems at both sites. The return and waste activated pump systems are integral to the secondary treatment process units. This project will also include energy efficiency components including energy efficient motors and variable frequency drives.

New Project:		Existing Projects: 1			Amended Projects:			
Project Financing (in millions of dollars)								
Year	Pre 2019	2019	2020	2021	2022	2023	2024	Total
County Debt (Bonds & BANS)	2.200							2.200
Appropriations	1.080							1.080
Private Investment								
State Reimbursement								-
Federal Reimbursement								-
Other	-	-	-	-	-	-	-	
Total County Cost	3.280	-	-	-	-	-	-	3.280
Management & Budget Recommendation:								

North and South Plant Electric Improvements

Upgrades/replacement of motor control centers at both North and South sites with replacement of the North Plant emergency generator and ancillary wiring and conduit upgrades.

New Project:		Existing Projects: 1			Amended Projects:			
Project Financing (in millions of dollars)								
Year	Pre 2019	2019	2020	2021	2022	2023	2024	Total
County Debt (Bonds & BANS)	2.294							2.294
Appropriations	2.052							2.052
Private Investment								
State Reimbursement								-
Federal Reimbursement								-
Other	-	-	-	-	-	-	-	-
Total County Cost	4.346	-	-	-	-	-	-	4.346
Management & Budget Recommendation:								

Anaerobic Digestion of Bio-solids / Regional Organics to Energy Facility

Design, construct and operate an anaerobic digester to energy facility at the North Plant to replace existing ultimate disposal method of sewage sludge. The facility will also be a regional source separated organic (SSO) facility. This project will replace aging equipment, generate electricity and provide a regional disposal location for SSO's to remove organic waste from landfills. This project would be a major "green" initiative and beneficially use renewable energy resources. This project will be located at the North Plant, with related improvements at the South Plant.

New Project:		Existing Projects: 1			Amended Projects:			
Project amended for 2019-2023 - updating funding sources and total cost of project.								
Project Financing (in millions of dollars)								
Year	Pre 2019	2019	2020	2021	2022	2023	2024	Total
County Debt (Bonds & BANS)	-	1.839	11.000	11.000		-	-	23.839
Appropriations	0.161	-	-	0.250				0.411
Saratoga County, NY	-	(2.000)	(11.125)	(11.125)				(24.250)
State Reimbursement								-
Federal Reimbursement								-
Other		2.000	11.125	11.125				24.250
Fund Balance				(0.250)				(0.250)
Total County Cost	0.161	1.839	11.000	11.250	-	-	-	24.250
Management & Budget Recommendation:								

South Plant Preliminary Treatment Building Repair Project

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 **repair** the building.

Amended for 2020-2024 - changed funding sources.

New Project:	Existing Projects:	Amended Projects:	1
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Project Financing (in millions of dollars)

Year	Pre 2019	2019	2020	2021	2022	2023	2024	Total
County Debt (Bonds & BANS)								-
Appropriations			0.650					0.650
Private Investment								
NYSERDA/ARRA/GIGP								-
State Reimbursement								-
Federal Reimbursement								-
Other	-	-	-	-	-	-	-	-
Total County Cost	-	-	0.650	-	-	-	-	0.650

Management & Budget Recommendation:

Clarifier Upgrade Project

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.

New Project:	1	Existing Projects:	Amended Projects:
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Project Financing (in millions of dollars)

Year	Pre 2019	2019	2020	2021	2022	2023	2024	Total
County Debt (Bonds & BANS)				0.300	2.400	1.150		3.850
Appropriations			0.050					0.050
Private Investment								-
NYSERDA/ARRA/GIGP								-
State Reimbursement								-
Federal Reimbursement								-
Other	-	-	-	-	-	-	-	-
Total County Cost	-	-	0.050	0.300	2.400	1.150	-	3.900

Management & Budget Recommendation:

High Voltage Upgrade

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.

New Project:	1	Existing Projects:	Amended Projects:
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Project Financing (in millions of dollars)

Year	Pre 2019	2019	2020	2021	2022	2023	2024	Total
County Debt (Bonds & BANS)			1.300	2.000				3.300
Appropriations		0.050						0.050
Private Investment								
NYSERDA/ARRA/GIGP								-
State Reimbursement								-
Federal Reimbursement								-
Other	-	-	-	-	-	-	-	-
Total County Cost	-	0.050	1.300	2.000	-	-	-	3.350

Management & Budget Recommendation:

Water Purification District Capital Plan Summary: All Projects								
New Projects:	2							
Existing Projects:	3							
Amended Projects:	1							
Project Financing (in millions of dollars)								
Year	Pre 2019	2019	2020	2021	2022	2023	2024	Total
County Debt (Bonds & BANS)	4.494	1.839	12.300	13.300	2.400	1.150	-	35.483
Appropriations	3.293	0.050	0.700	0.250	-	-	-	4.293
Saratoga County, NY	-	(2.000)	(11.125)	(11.125)	-	-	-	(24.250)
State Reimbursement	-	-	-	-	-	-	-	-
Federal Reimbursement	-	-	-	-	-	-	-	-
Other	-	2.000	11.125	11.125	-	-	-	24.250
Fund Balance		-	-	(0.250)	-	-	-	(0.250)
Total County Cost	7.787	1.889	13.000	13.300	2.400	1.150	-	39.526