

SILICON VALLEY WASTEWATER TREATMENT PLANT RELIABILITY UPGRADES

BORROWER: Silicon Valley Clean Water

LOCATION: Redwood City, CA

WIFIA LOAN AMOUNT: \$74 million

TOTAL WIFIA PROJECT COSTS: \$151 million

POPULATION SERVED BY SYSTEM: 225,000

NUMBER OF JOBS CREATED: 480 jobs



Image courtesy of Silicon Valley Clean Water

PROJECT DESCRIPTION

The Wastewater Treatment Plant Reliability Upgrades program will promote water reuse and enhance sustainable energy use through rehabilitation and expansion of the treatment plant and its energy system. The project will ensure reliable and cost-effective wastewater treatment through process upgrades to improve treatment facilities by replacing aging systems with new, energy-efficient technologies. The project also includes expansion of the energy system to harness biogas from food waste for beneficial reuse, providing all of the systems' energy needs. The project will upgrade the primary, secondary, tertiary, and solids handling processes and improve energy systems to ensure reliability for decades.

PROJECT BENEFITS

- Improves system reliability by rehabilitating and replacing aging infrastructure.
- Expands water reuse in a drought-stressed region by enhancing quality of recycled water.
- Increases renewable energy production to provide reliable backup power from biogas and reduces reliance on fossil-fuels, decreasing greenhouse gas emissions.
- Saves ratepayers \$18 million from financing with a WIFIA loan compared to a bond issuance.