

TREATMENT PLANT UPGRADE

STATE PROGRAM: Idaho Department of Environmental Quality

ASSISTANCE RECIPIENT: City of Nampa

ASSISTANCE AMOUNT: \$165M



PROJECT DESCRIPTION

The City of Nampa, with its population of approximately 91,000, showed foresight and determination to address their wastewater quality needs by committing to \$165 million in financing from the Idaho's Department of Environmental Quality's State Revolving Fund. These funds will be used to upgrade the existing wastewater treatment facility to meet the future standard phosphorus limit of 0.1 milligrams per liter by 2026 and to also meet summer seasonal temperature limits. With such a large project for a city of this size, a three-phase funding approach was adopted to fund the City's Capital Improvement Plan over a 30-year period with an interest rate of 1.68 percent. It is estimated that the City will save \$38 million by using these flexible SRF terms and by avoiding the market's transaction costs and other various fees. For the three phase upgrades, Phase I will include a primary effluent pump station, a third aeration basin, an anaerobic digester, and a solids handling facility. Phase II will bring a fourth aeration basin, tertiary filtration, ultraviolet disinfection, side-stream phosphorus removal, a new primary thickening process, a fifth anaerobic digester, and expand the solids handling facility. Phase III will include individual pump stations and pipelines for irrigation and industrial conveyance, along with internal mixed liquor return pumps for the activated sludge process.

To read more about this case study, please visit https://www.epa.gov/sites/default/files/2018-11/documents/pisces_2018_compendium_0.pdf.