

WASTEWATER SYSTEM CONSOLIDATION

STATE PROGRAM: Idaho Department of Environmental Quality

ASSISTANCE RECIPIENT: City of Fruitland

ASSISTANCE AMOUNT: \$10M



PROJECT DESCRIPTION

Fruitland relied on outdated lagoons to treat their wastewater and struggled to meet permit limits for their discharges to two different 303d-listed streams. This project replaced these failing treatment systems with a single innovative Multi-Stage Activated Biological Process, which allows the City to protect salmon populations in the Snake River. The project eliminates one discharge and removes enough nutrients to meet the permit levels at the other discharge without adding any chemicals. Fruitland coupled these improvements with additional energy saving upgrades, including a new interceptor sewer (consolidating all wastewater flow to the downstream upgraded plant), a high intensity UV disinfection system, and tertiary filtration. Idaho's CWSRF funded half the project and partnered with a variety of local, state, and federal funding sources to fund the rest. The energy efficiency improvements alone will save the small community \$300,000 annually, with a similar sum saved from eliminating the need for chemical purchase and byproduct disposal. The City now has a single, combined wastewater treatment facility with a single discharge to a different receiving stream, meeting stringent effluent permit limits.

To read more about this case study, please visit [epa.gov/sites/default/files/2017-11/documents/pisces_compendium_final2.pdf](https://www.epa.gov/sites/default/files/2017-11/documents/pisces_compendium_final2.pdf).