

WATER RECLAMATION FACILITY SOUTH PLANT IMPROVEMENTS

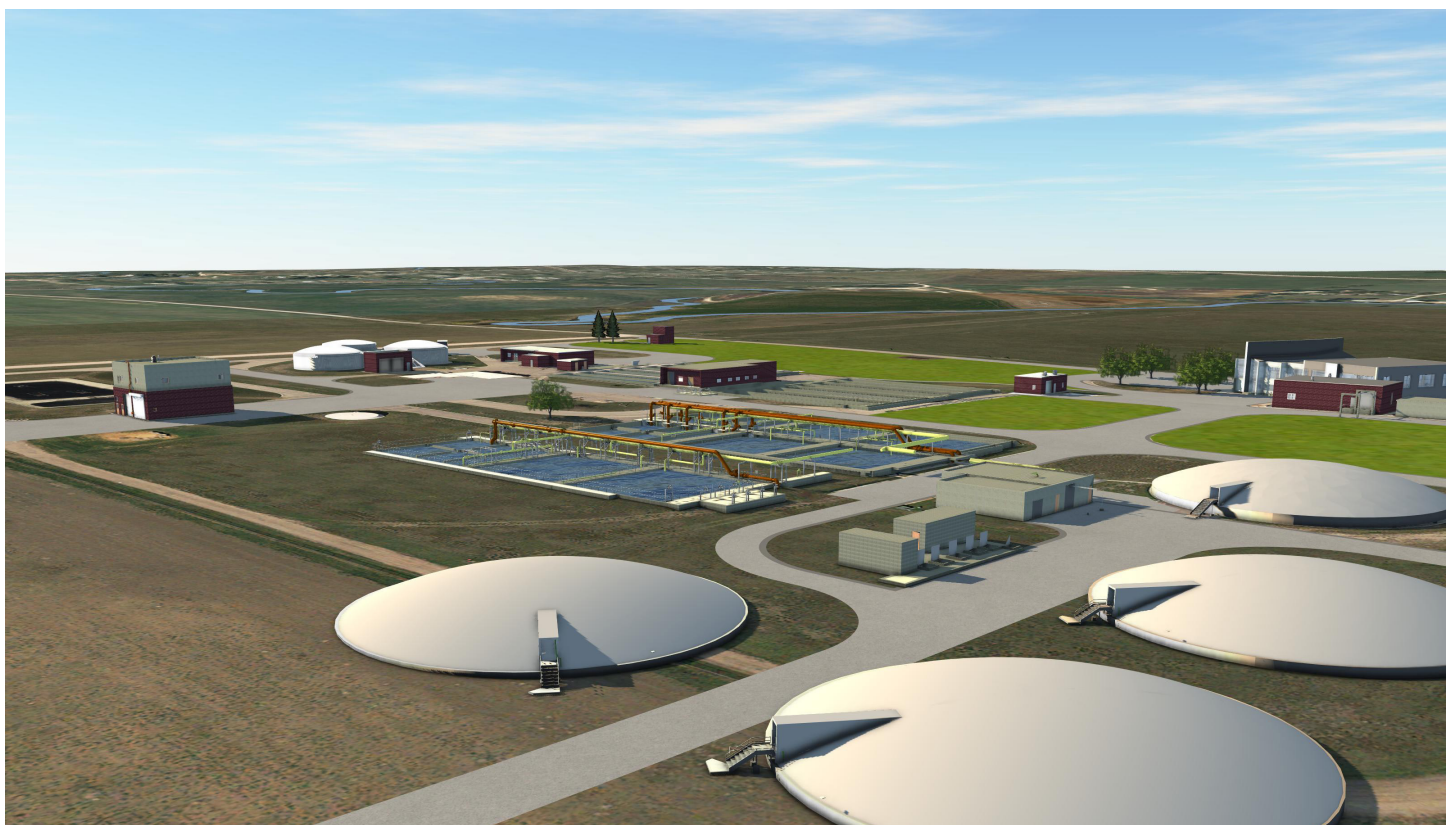
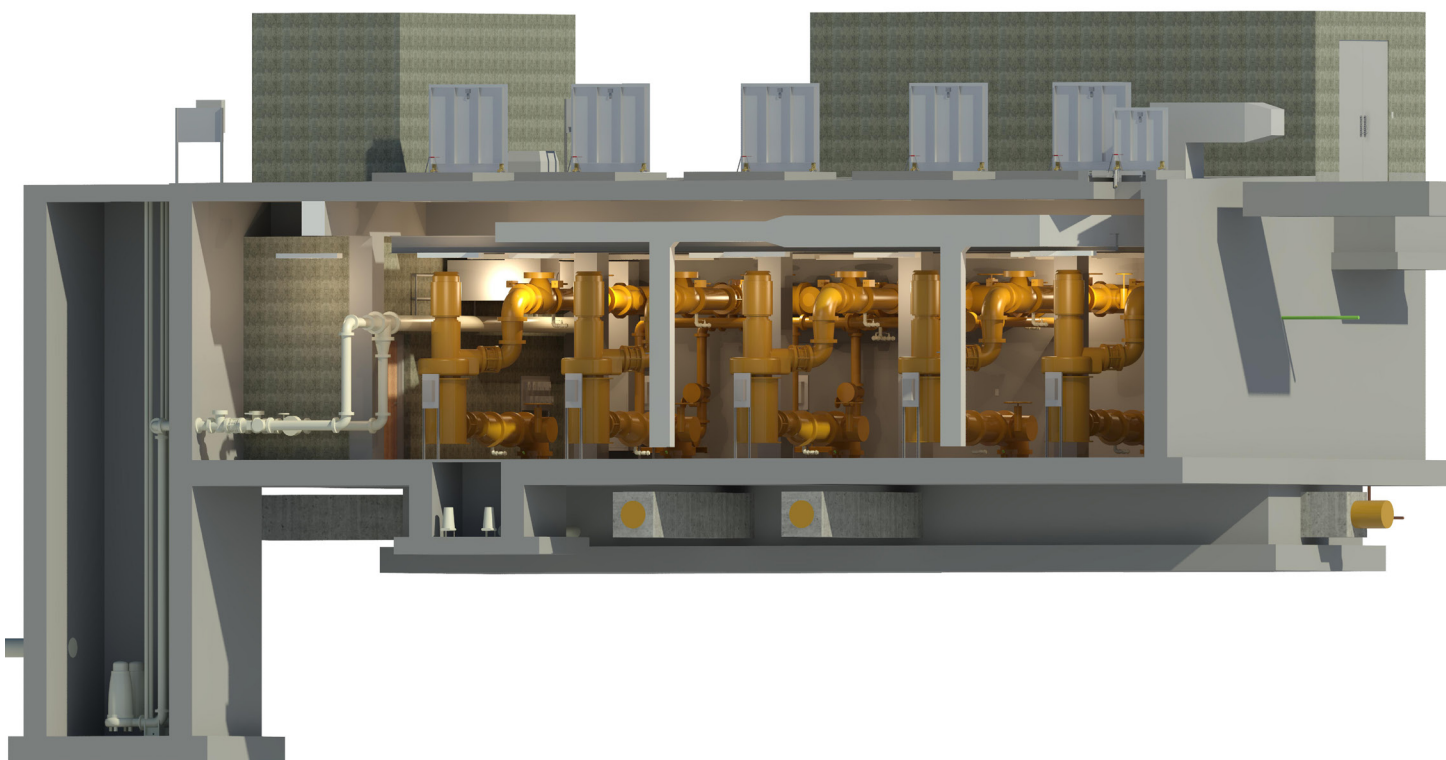
When you flush your toilet or wash your clothes, you may not think about where that water goes or what happens to it.

Water that has been used is referred to as wastewater and is transported to the City’s Water Reclamation Facility via an extensive sewage network or by private septage haulers. Here, the wastewater is collected and treated before being returned to the natural water cycle by way of Rapid Creek.

As you can imagine, this process and facility is incredibly important to keep our community clean and safe. The region’s growing population is creating a higher demand for wastewater treatment, and in 2022, the City of Rapid City was awarded a grant from the Department of Agriculture and Natural Resources (DANR) for overall improvements to the Water Reclamation Facility.

These improvements will:

-  Increase reliability of the system by expanding treatment capacity
-  Protect public health by improving the current system
-  Save taxpayer dollars by reducing equipment repairs
-  Ensure system compliance with increasing federal and state regulations
-  Future-proof the facility by taking into account population growth projections and anticipated regulation changes
-  Protect the water quality of Rapid Creek and downstream habitats by implementing reliable and efficient treatment processes
-  Support economic growth in the region by providing a water reclamation facility with room for growth



Rendering of completed Water Reclamation Facility South Plant Improvements.

What’s next for the Water Reclamation Facility?

WINTER 2022

Phase I Improvements:
Improve and rehabilitate clarifiers

FALL 2023

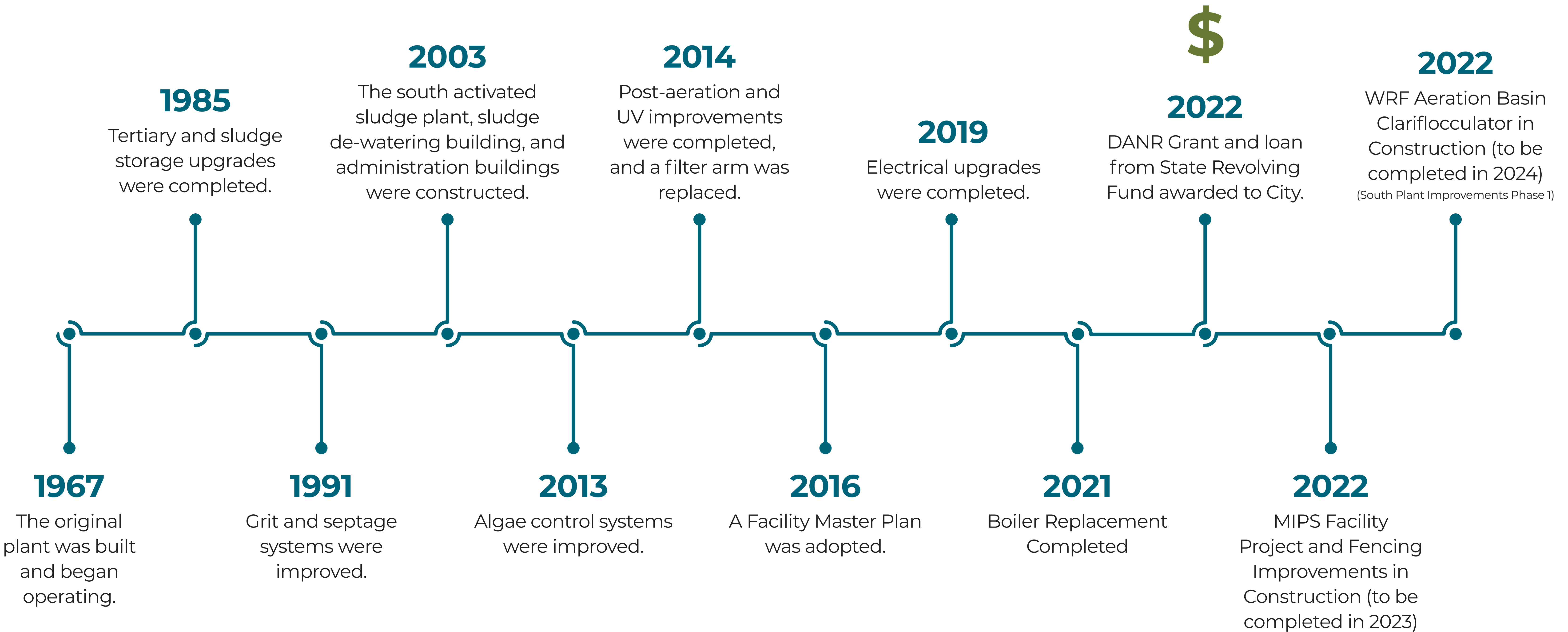
Phase II Improvements:
Improve liquids and solids handling treatment processes and equipment

SPRING 2024

Phase III Improvements:
Administrative building expansion and grounds improvements

The South Plant Improvements are expected to be complete in late 2026. This facility will provide treatment up to a service population of 120,500.

HISTORY OF THE WATER RECLAMATION FACILITY



PROJECT FAQ

How is this project being funded?

In 2022, the City was awarded a grant from the Department of Agriculture and Natural Resources (DANR). The City capitalized on this opportunity to improve the overall Water Reclamation Facility. The City has secured a loan for approximately \$101.5 million from the State Revolving Fund. These funds are expected to cover the majority of the project cost, and the project team is committed to stewarding public dollars responsibly.

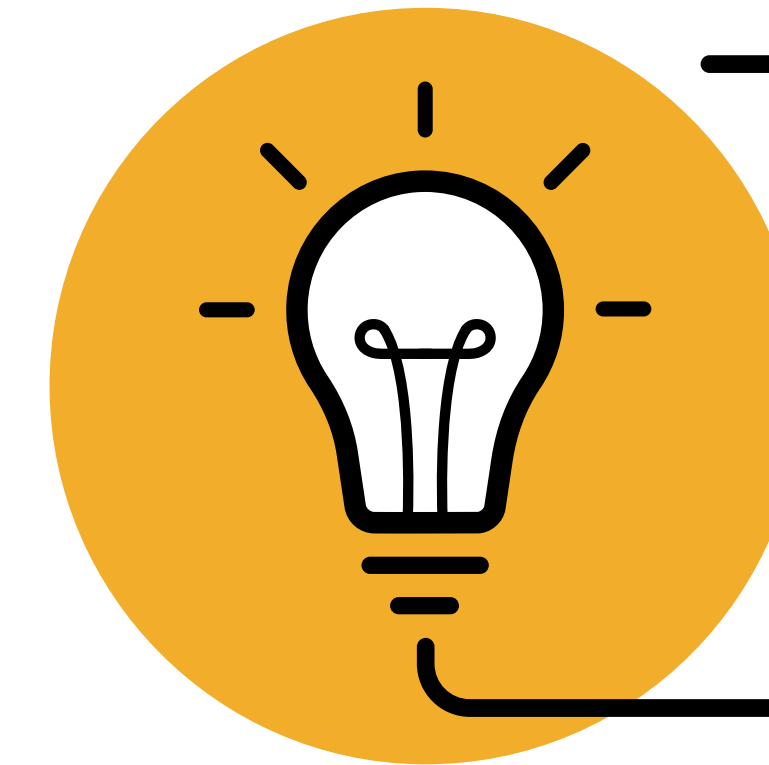
What happens if the water reclamation system experiences a system failure?

A system failure is unlikely, but still possible, and the improvements being made will provide additional safeguards. A system failure could result in raw sewage spills and backups, which threaten the local environment, human health and the water quality of Rapid Creek.

How will the improvements increase reliability of the system?

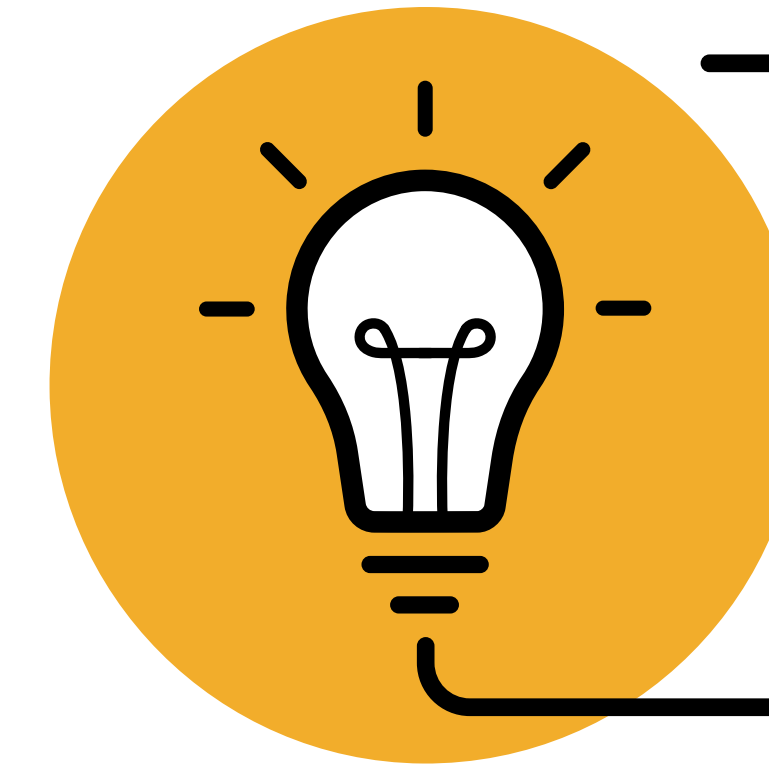
Regional water users will benefit from a more reliable system once improvements are completed. Old and outdated equipment that requires frequent maintenance will be replaced with state-of-the-art machinery that will require less maintenance and serve the facility for years to come. Additionally, the capacity of the system will be increased, which means continued population growth and economic expansion will not put undue pressure on the system. This project is focused on our community's future. Not only are we building to keep up with today, but we are building to ensure the facility will be able to provide reliable service for the next few decades.

FUN FACT



There are over **350 miles** of sanitary sewer lines in Rapid City.

FUN FACT



The sewer collection system in Rapid City has **7,398 manholes**.

SHARE IT!



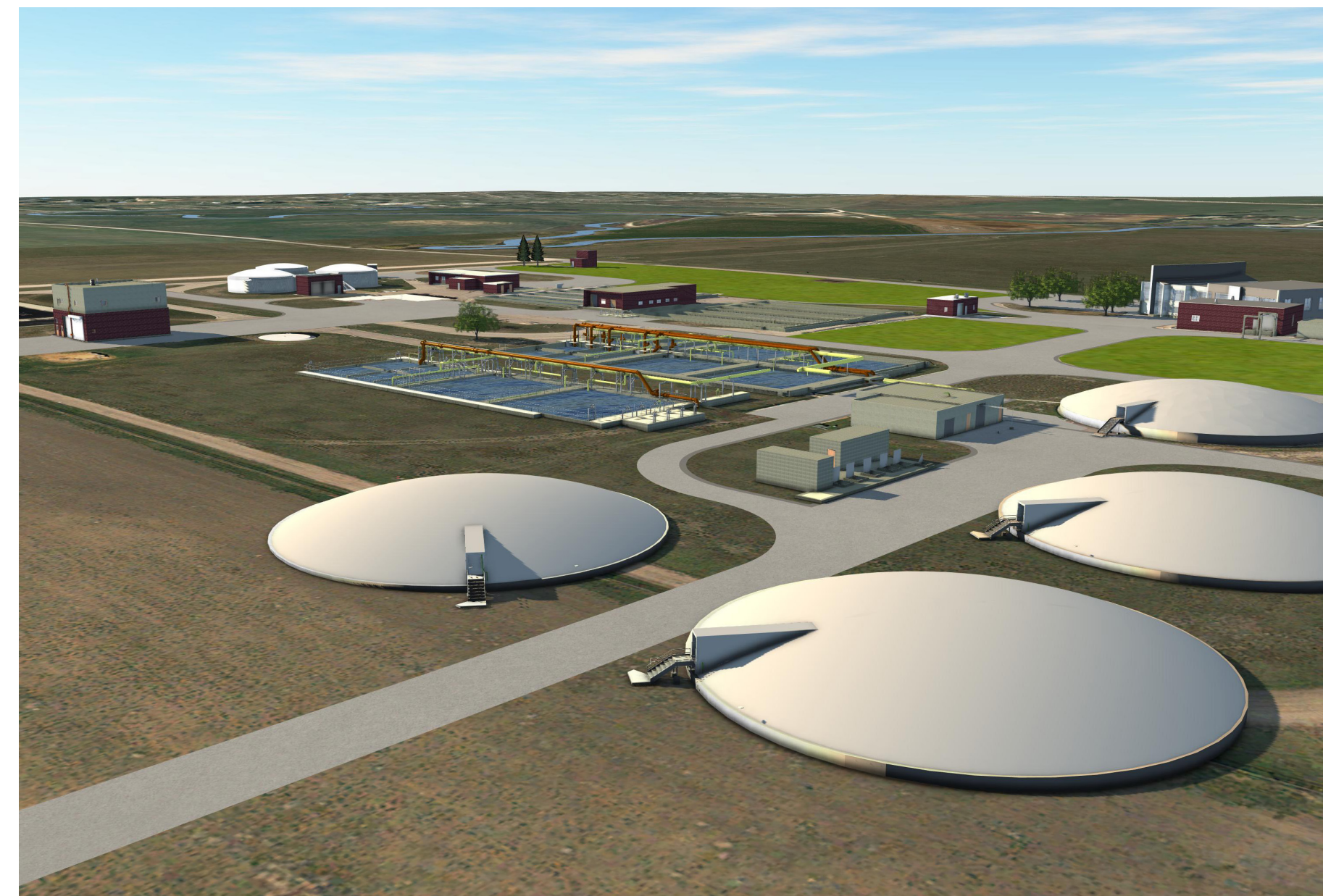
The Water Reclamation Facility South Plant Improvements project is very exciting for our community.

Scan the QR code below to view digital versions of this display to share with friends, family, and colleagues.

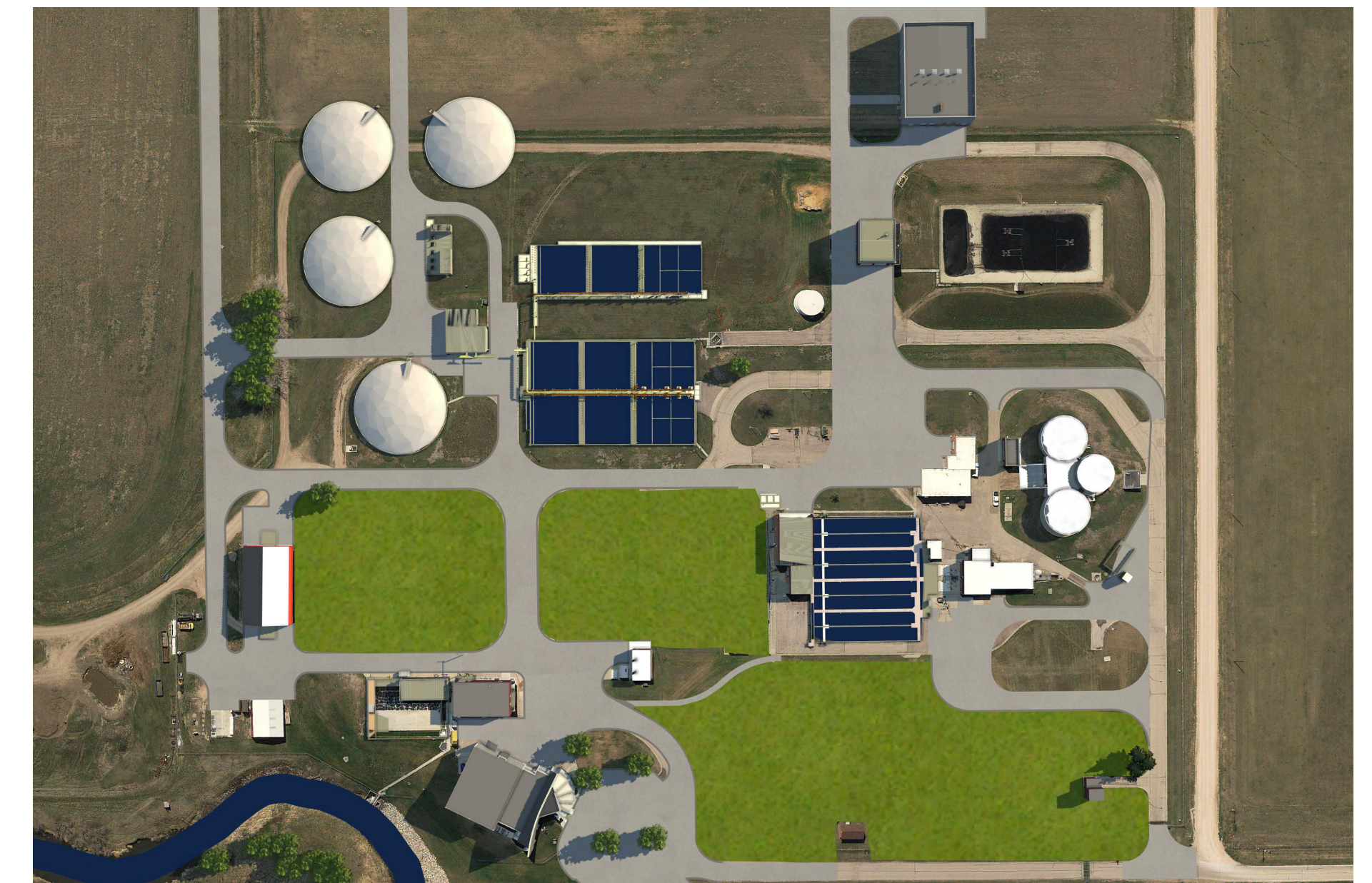
1. **Point** your camera at the QR code
2. **Scan** the QR code.
3. **Learn** more about the project!



Rendering of completed Water Reclamation Facility South Plant Improvements - aeration basin.



Rendering of completed Water Reclamation Facility South Plant Improvements - clarifiers.



Rendering of completed Water Reclamation Facility South Plant Improvements.