



SALT LAKE CITY DEPARTMENT OF PUBLIC UTILITIES

Water Reclamation Facility

Construction Update: Fall 2020



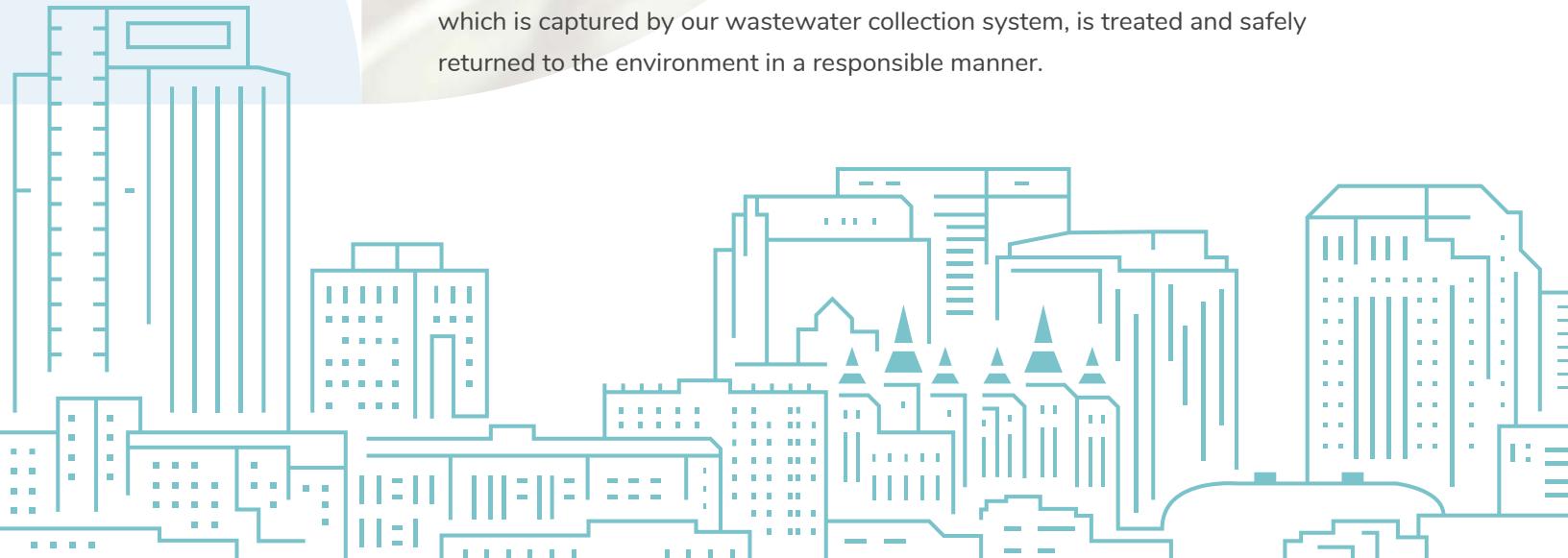
It's been six months since we began construction of Salt Lake City's new Water Reclamation Facility at the site of the existing Facility, located at 1365 West 2300 North. As work continues on this major project, we want to keep you informed on what is happening, have mechanisms in place to answer your questions, and be responsive to your needs.

About the Project

The new Water Reclamation Facility is a \$700 million project that will take six years to construct and is the largest public utility project in Salt Lake City's history.

We are rebuilding the Facility to meet mandatory new water quality standards, improve efficiency and reliability, and avoid risks associated with the operation of a 55-year-old Facility near the end of its service life. The Facility currently treats about 35 million gallons of wastewater every day and is the only wastewater treatment facility the City has. That means it must operate 24/7 without interruption, even during construction.

This project will ensure that the water used by residents, businesses, and industry, which is captured by our wastewater collection system, is treated and safely returned to the environment in a responsible manner.



Our Guiding Principles for the New Water Reclamation Facility Project

- 1 Wastewater treatment
- 2 Cost and budget
- 3 Safety
- 4 Public engagement and education
- 5 Sustainability



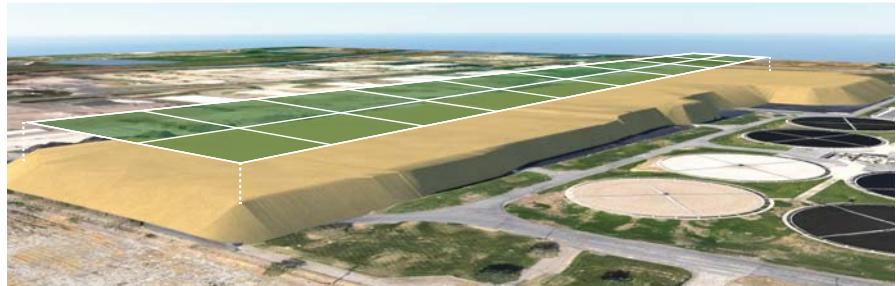
Existing



Proposed

Soil Being Hauled to The Site to Improve Ground Conditions

During this phase of construction, some may notice trucks hauling soil daily to the site. In total, there will be 1.9 million tons of fill dirt placed onto the site; the effort will take about six months to complete.



When finished, the result will be a pile that will be 35 feet tall, nearly equivalent to a four-story building, and covering 23 acres, about the size of 18 football fields.

Why such a big pile of dirt? Based on core samples of the soil taken at multiple locations throughout the project site, geotechnical engineers, who are responsible for the structural foundations of the new Facility, determined that the poor soil conditions and high groundwater level would result in the new construction elements settling three to five feet unless the ground is stabilized. The soil being placed at such a height will compress and stabilize the site. Once the ground is stabilized, the extra fill dirt will be removed.



Using this method to compact or pre-load the soil instead of driving piles saves ratepayers roughly \$40 million. Piles will still be used to support structures at other locations on the project site where schedule and/or soil conditions make pre-loading infeasible.

We're working to reduce the impact of this work.

We realize that an increase in truck traffic on Warm Springs Road to 2300 North can have an impact on nearby businesses and residents that travel on that road. To reduce this impact, we have put in place traffic management and dust control plans, including specific truck routes leaving the Staker Parson Gravel Pit, to mitigate neighborhood impacts. Please be aware that there are numerous trucks leaving this gravel pit for many other projects in the Salt Lake Valley. Plans will be modified as necessary during this pre-loading phase of the project.

THE PROJECT TIMELINE



New Influent Sewer Pipeline Being Constructed

We're building a new influent pipeline to convey sewage to the new Facility using gravity rather than pumping. By using gravity to convey wastewater to the new Water Reclamation Facility, we can relocate the existing pump station within the property of the main plant, thereby consolidating operations and maintenance, resulting in improved efficiencies, and eliminating a source of odors near the golf course, neighboring schools, and residential areas.

The pipeline, which will originate near the Rose Park Golf Course and end at the Facility site, will be 84-inches in diameter and 4,700 feet long. It will be buried approximately 25 to 35 feet below the ground surface to achieve gravity flow. The pipeline, which is currently planned to be constructed of centrifugally cast fiberglass reinforced polymer mortar pipe or FRP, has an anticipated service life of up to 75 years.



The pipeline will likely be installed using a method known as microtunneling, which uses a remote-controlled boring machine to carve a tunnel that slightly exceeds the outside diameter of the pipe being installed. The pipe is then guided into the hole as the boring machine proceeds. Vertical shafts will be constructed at locations where the course of the pipeline changes direction. The staging

locations for the boring machinery will be near the Rose Park Golf Course and near Marathon Oil's property. We are also still investigating the costs and benefits of installing the pipeline using an open cut method instead of microtunneling. A decision on the installation method will be made in the coming months.



We are working hard to reduce the impact of pipeline construction.

We have been working with the Rose Park Golf Course and Marathon Oil to put in place a construction plan that accommodates their needs. For example, golf course personnel prefer that work done near their property occur during winter months to limit impact on course users. Noise and vibration from the microtunneling process should be minimal, and staging areas will be surrounded by safety fencing. Similar to the main plant site, improvements to the existing soil are needed to limit any settling of the gravity sewer pipe. In this case, grout will be injected into the soil at a set depth along the route of the pipeline to act as

underground piers to support the weight of the sewer.





Salt Lake City
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CONTACT US

If you have any questions about the Water Reclamation Facility or Salt Lake City Department of Public Utilities, please call our Project Information Line at 801-917-1124 or visit MakItPureSLC.com. You may also call Public Utilities' customer service department at 801-483-6900 or visit slcpu@slcgov.com.



We Are Committed to Being a Good Neighbor and Responsible Member of the Community

As construction on the new Water Reclamation Facility continues, we are working hard to limit impacts, be a good neighbor, and be a responsible member of the community.

We are committed to the project being a model of what a cost and community-conscious large infrastructure project should be. We want it to be a legacy project that people are proud of and that will serve the City and its residents for generations.



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