

SILVER LAKE RESERVOIR COMPLEX WATER SYSTEM INFRASTRUCTURE PROJECTS

In order to comply with the United States Environmental Protection Agency's Long-Term 2 Enhanced Surface Water Treatment Rule, the Los Angeles Department of Water and Power (LADWP) removed Silver Lake and Ivanhoe Reservoirs from the water distribution system. Although no longer a potable drinking water storage facility, LADWP will maintain the reservoirs' water elevations within historical levels, and allow the reservoirs to revert to a more natural state. The following projects are either underway or in the planning stages to improve the operation and aesthetics of both Silver Lake and Ivanhoe Reservoirs. Moving forward, the projects described below will provide the infrastructure necessary to ensure that the reservoirs' historic water elevation levels and aesthetics are maintained.

Groundwater Infrastructure –Refill Ivanhoe & Silver Lake Reservoirs

Construction Completed

Pollock Well #3 is located at a nearby LADWP facility, just northeast of the Silver Lake Complex. LADWP is currently pumping groundwater from Pollock Well #3 to refill Ivanhoe Reservoir, and shortly after will refill Silver Lake Reservoir. LADWP will continue to monitor water levels to determine when refill with groundwater from this well is necessary.

Gate Well Modifications

Construction Completed

The gate well is designed to allow water to flow between the two reservoirs. Now that both reservoirs are out of service, LADWP removed a portion of the concrete gate well plug to be able to refill Ivanhoe and Silver Lake independently.

Phase 1: Aeration System

Construction: Spring 2021 – Fall 2023

The aeration system will use compressors installed on the northeast side of Silver Lake Reservoir to supply air to a series of mixing equipment inside each reservoir. The equipment will increase the oxygen level at the bottom of the reservoir and locally mix the water around it. This aeration system will slow down algae growth and reduce potential related odors from anaerobic conditions. The aeration system is currently under design.

Phase 2: Recirculation System

Construction: Spring 2022 – Winter 2024

The recirculation system includes pumps and pipelines designed to transfer water from the southern end of Silver Lake Reservoir to the northern end of Ivanhoe Reservoir. This full water transfer between both basins allows for more thorough mixing and de-stratification, which will also reduce algae development while utilizing the existing spillway between the reservoirs.

Master Plan

The Master Planning process is led by the Bureau of Engineering and funded by LADWP. For more information and updates, visit <https://eng.lacity.org/slrcmp-home> or email eng.slrcmp@lacity.org.

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