



# SILVER LAKE & IVANHOE RESERVOIRS AERATION AND RECIRCULATION SYSTEM PROJECT

February 23, 2023  
Gracy Estrada  
Project Management Office

# THE AERATION & RECIRCULATION PROJECT



## Objective

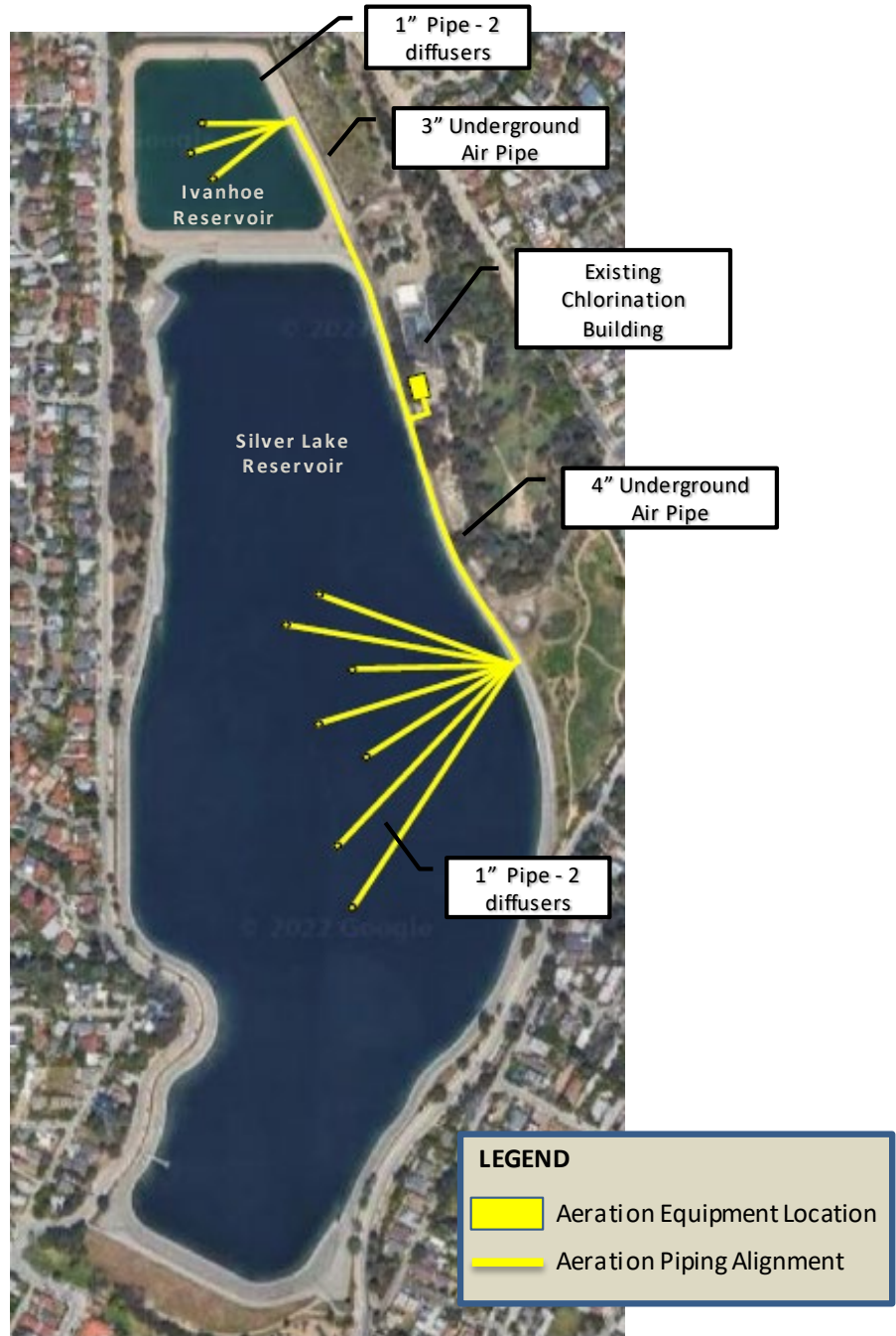
Control algal growth and associated odors at the Reservoirs by installing an aeration and recirculation system to properly mix the water

## Scope of Work

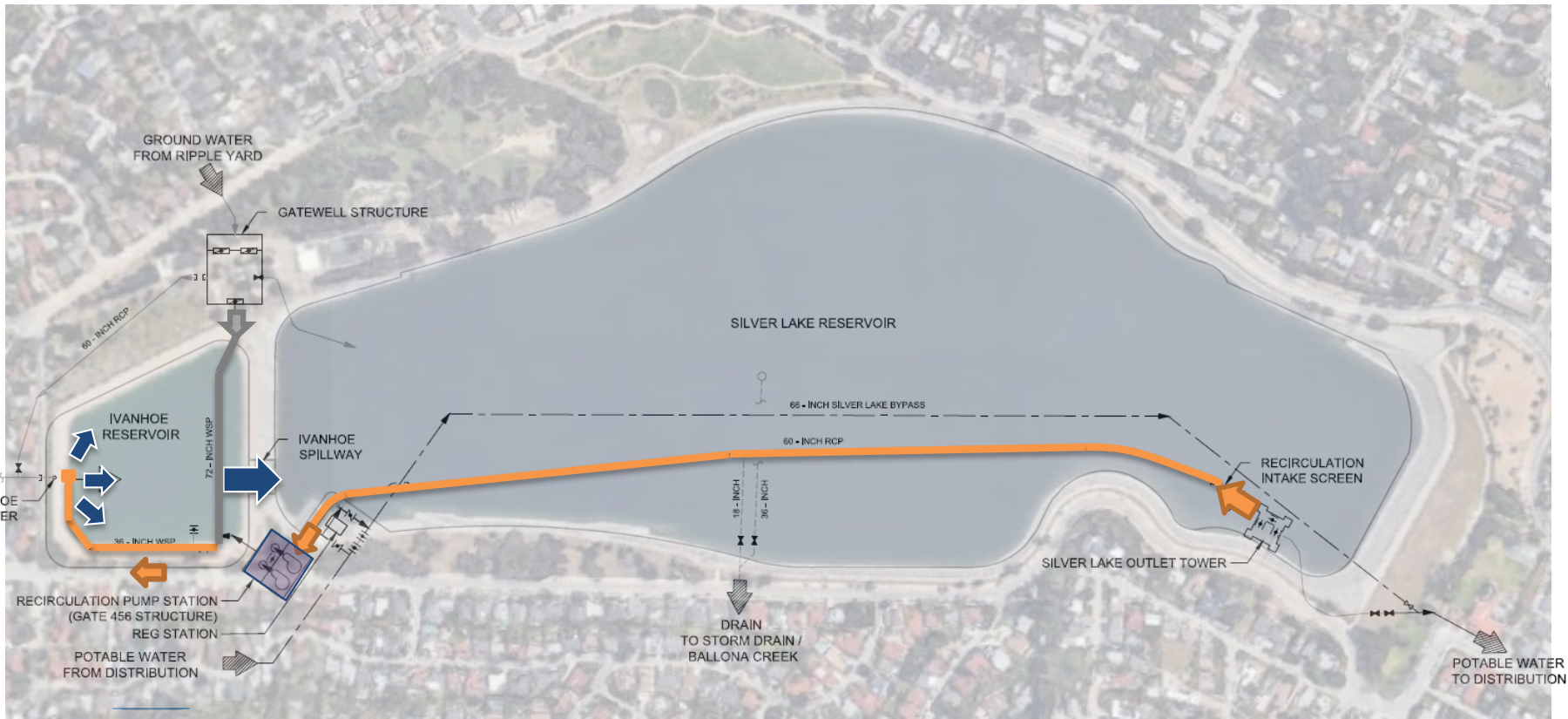
- Phase 1 – Aeration System: install diffusers at the bottom of the reservoirs to aerate the water.
- Phase 2 – Recirculation System: install pipe to transport water from the south end of Silver Lake to the north end of Ivanhoe. The water will then overflow back to Silver Lake via the existing spillway.

# Phase 1 - Aeration System

- Aeration System Overview
- Construction started on May 10, 2021 by our in-house construction crews
- Aeration System completion Date: May 2023
- Manifold relocation update



# Phase 2 - Recirculation System



- Recirculation System Overview
- Construction started on February 13, 2023 by our in-house construction crews



**LEGEND**

- Recirculation Equipment Location
- Recirculation Pipe Alignment
- Existing Pipe Alignment
- Plug Flow
- Free Flow

# CONSTRUCTION TIMELINE



- Ivanhoe Reservoir was drained into Silver Lake Reservoir
  - Refill tentatively scheduled for Winter 2024
- Silver Lake **WILL NOT** be drained
- Work inside of Gate 456
- Work inside of Ivanhoe Reservoir
- Overall completion Date: Winter 2024

# Construction Information

- Construction vehicles
  - Backhoes and trucks
- Noise reduction measures continue to be implemented
- All work within the Reservoir Complex
- Bird Nesting Season
  - Nesting Bird Survey completed on March 8, 2022.
  - An additional Bird Survey will be completed in Early March before construction on the west side of the Ivanhoe Reservoir proceeds.
  - Monitor during construction activities.
- Work hours
  - 7:00 am to 3:30 pm, Monday thru Friday

# Contact Information

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# QUESTIONS

