



Wastewater Treatment



TRANSFORMING WASTEWATER TO RESOURCES



Recycled Water



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Tower Trickling Filter Rehabilitation Project: Emergency Repair Authorization

Board of Directors Meeting
June 12, 2024

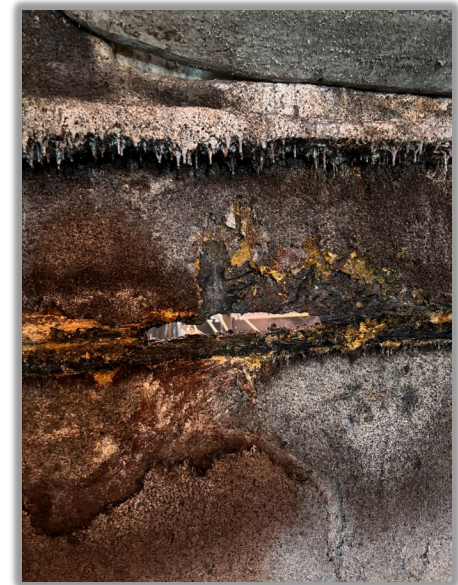
TTF Emergency Repair Authorization Overview



- Four tower trickling filters (TTFs) are critical to meeting NPDES permit requirements at District's WWTP
- August 2023: Significant corrosion damage identified on **rotary distributor arm structure**; Board authorized TTF Rehabilitation Project (\$250k) to support consultant evaluation of damage, development of repair approaches
- September 2023: Consultant field investigations revealed additional corrosion damage to critical TTF components (i.e., **structural support roof beams**)—determined no imminent danger/safety concern, periodic monitoring needed
- May 2024: More detailed field investigations to support development of repair approach revealed **rapid deterioration of TTF roof beams** since last inspection in September 2023

Public Contract Code Section 20783 Emergency Repair Needed

- Interior roof beams are now structurally compromised—one beam has limited, localized failure (e.g., ~3-6” holes)
- Based on critical nature of TTFs and potential for great public calamity, staff is recommending emergency repair
 - Structural failure may cause loss of one or more TTFs, **imperiling District’s ability to meet NPDES regulatory compliance obligations**
 - **Safety risk** limits performance of TTF preventative maintenance work
 - **Infeasible to solicit bids** (schedule impacts), because of **immediate danger to life, health, and property** that exists without four TTFs in service



Developing Recommended TTF Emergency Repairs



- Near-term focus is on stabilizing structural roof beams (e.g., temporary bracing, crane support) to allow critical TTF **preventative maintenance tasks** to be completed (due every 4 to 8 weeks)
- Developing repair plan for immediate implementation to **stabilize TTF roof beams/covers, repair rotary distributor arm support structure, and remove corroded components** that could cause internal damage or limit TTF performance
- Staff is targeting completion of repair work by July 2024

Recommended Actions

1. Adopt resolution declaring that, as of May 22, 2024, public interest and necessity demanded immediate expenditure of public money to repair unanticipated structural failure of TTFs to safeguard life, health, and property, without submitting the expenditure to bid, pursuant to Public Contract Code Section 20783;
2. Authorize General Manager to transfer monies from WW CAR Fund Reserves, in the amount of \$200,000, for a total project budget of \$450,000;
3. Authorize General Manager to negotiate and execute of agreements for materials procurement, construction, and other related services as required to complete permanent repair of TTFs, in a total combined amount not to exceed \$450,000; and
4. Determine that repair of TTFs is exempt from environmental review under CEQA, and direct General Manager, or his designee, to file a CEQA Notice of Exemption (NOE) with County Clerk-Recorder