



GENERAL MANAGER'S REPORT



11. UPDATE ON SLEEPY HOLLOW IMPROVEMENT PROJECTS

Meeting Date: September 19, 2022

Staff contact: Thomas Christensen

Need for Replacement Project

- Fiberglass tanks were at end of useful life (>25 years old); cracks in some tanks had appeared;
- No tank foundations; settling occurred reducing useful life, possibly inducing cracks;
- Electrical supply switches and outlets at end of useful (safe) life in the outdoors;
- Chillers not capable of cooling river water to desired temperature (< 60°F)
- Drain valve handles needed replacement and relocation.

Pre-construction



**Fiberglass
crack repair**



Limited foundation support

Drain
valve
worn;
difficult
access.



Scope of Work

- Demolition of six 8-foot diameter and one 4-foot diameter fiberglass tanks
- Remove five chillers and associated plumbing fixtures, electrical panels, and air lines
- Excavation, compaction, importation of structural fill and pouring of seven concrete slabs
- Place new tanks and reconnect all plumbing, electrical, and air lines
- Furnish and install new pumps and air-cooled water chiller units
- Replace existing Square-D QO panel board in MCC-1 with NEMA 250 (this item was subsequently deleted after it was determined not to be necessary)

Construction



- All old electrical equipment removed
- Custom deck removal at each tank
- Plumbing underneath existing tanks removed and/or relocated

Construction



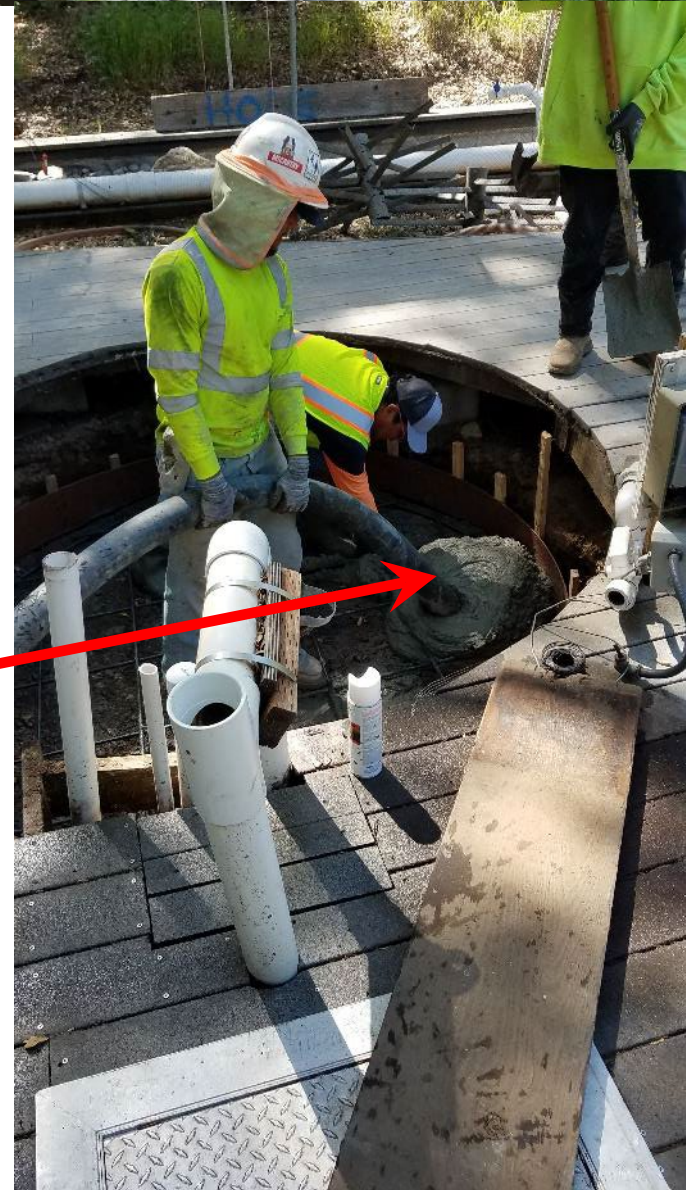
Each tank required hand excavation, importation and compaction of structural fill material.

Construction



- **Steel reinforcement mat for each slab**

- **Concrete pour**



Construction



Each new tank was carefully placed onto a new concrete pad, leveled and replumbed with new air, water, electric, drain, and appurtenances.

Sleepy Hollow Quarantine Tank Replacement



Project status

- 100% of contract work completed;
- All components functional;
- Remaining tasks:
 - 1) repair non-conforming power installation at chillers;
 - 2) finalize form of insulated tank covers;
 - 3) repair a fiberglass bubble in Tank 4.

Project Costs

- Board Authorizations

Design = \$67,500

Tank Purchase = \$48,000

Tank Install = \$262,500

Total = \$378,000

- Actual Cost

(to date)

\$34,500

\$40,350

\$239,847.50

\$314,697.50

Notes:

1. Design authorization includes ongoing rearing channel rehabilitation plans (TetraTech).
2. Tank cover costs are not final (Reiff Mfg.).
3. Tank install costs are final (MPE).



FOR MORE INFORMATION

District website:

www.mpwmd.net

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MPWMD Board of Director's Meeting

Monday, September 19, 2022

Distributed to the Board, General Manager and District
Counsel