

Water Tower Rehabilitation Update

CITY OF FOWLER

JANUARY 2024

Water Tower Structural Analysis & Materials Testing findings

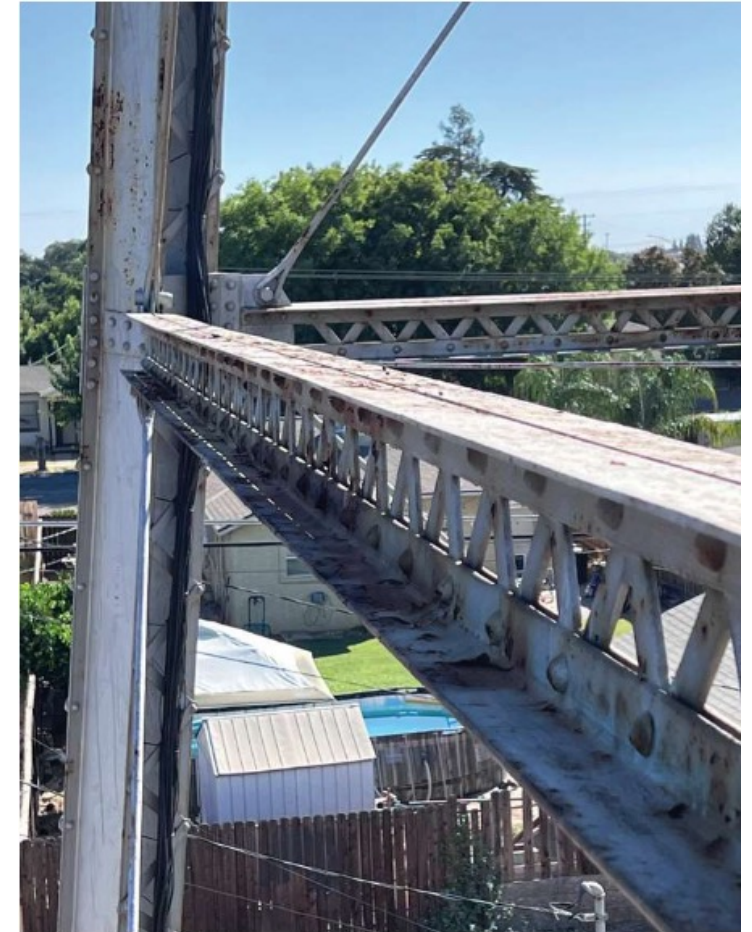
- Dewberry Engineers, the selected consultant, has identified the following deficiencies:
 - Potential for uplift of the water tower legs during a high wind event.
 - Existing coating of the tank and structure contain heavy metal contaminates
 - Corrosion at connections between the tank and the water tower legs.



Option #1 Abate Existing Structure & Tank

- Approximate mitigation costs:
 - Concrete Block Installation to mitigate uplift
Estimate: \$20,000 - **underway**
 - Abatement and Coating Estimate:
\$600,000-\$1,000,000
 - Tank Aesthetics Improvement: \$50,000

ESTIMATED TOTAL: \$1,070,000



Option #2 Faux Tank

STAFF RECOMMENDED OPTION:

- Concrete block installation: \$20,000 - **underway**
- Old tank removal: \$100,000.
- Encapsulation coating for support legs, painting and installation: \$200,000.
- Faux tower design and construction: \$220,000.

ESTIMATED TOTAL \$540,000



Next Steps: Design & Communications Equipment Coordination

- Move forward with Council's direction on the tower, including Dewberry-led design process for aesthetic enhancement.
- Consider options for the communications equipment:
 - Mono pole/ self supporting tower, 100 feet, cable extension, equipment relocation.
Requires Planning Commission review & approval
 - Place communication equipment on a temporary mobile tower during construction and reinstall on the water tower following rehabilitation.



Similar Water Towers with Communication Equipment

