Retrofitting your old Concrete Water Tank



CONCRETE TANK SERVICES

Safety & Security



Retrofit – Safety/Security/Access Upgrades





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Retrofit – Safety/Security/Access Upgrades



Beautify

Rehabilitation - Aesthetics



Rehabilitation - Aesthetics



New Technology

Rehabilitation - Repairs



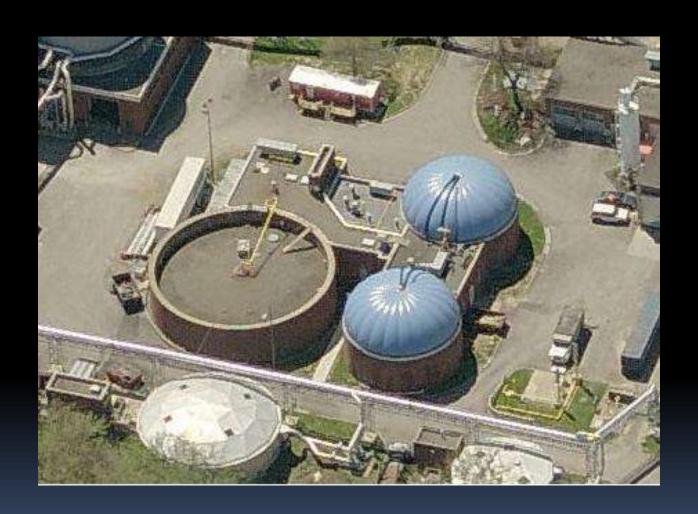




Response to Change in Clients Needs







Water Quality Upgrades

Concentric C Baffle



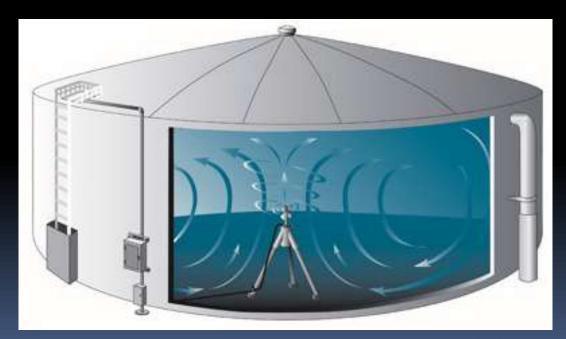


Retrofit – Water Quality



Mechanical Mixing System

- Can require a small amount of power to operate
- Fast, cost efficient installation



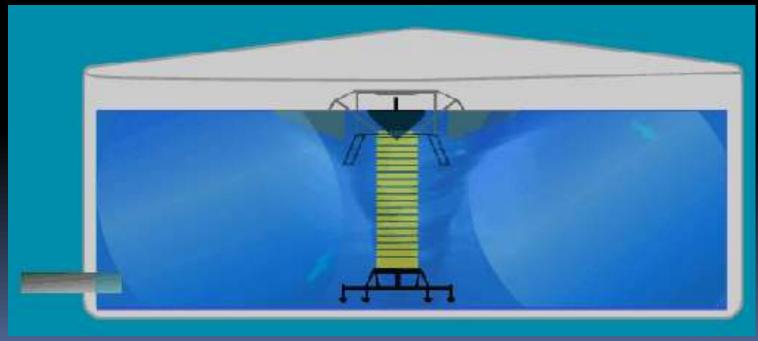
PAX Water Technologies



PAX Water Technologies

Mechanical Mixing System

- Prevents stagnation, thermal stratification, nitrification and short circuiting.
- Provides complete mixing of influent and outflow.
- Can be solar powered.

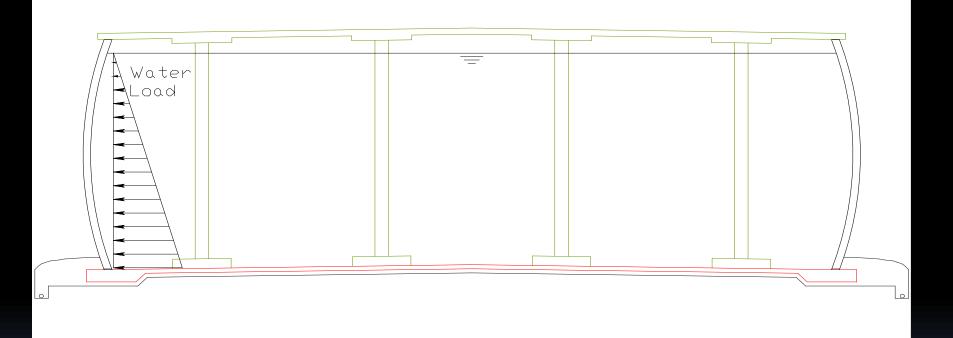


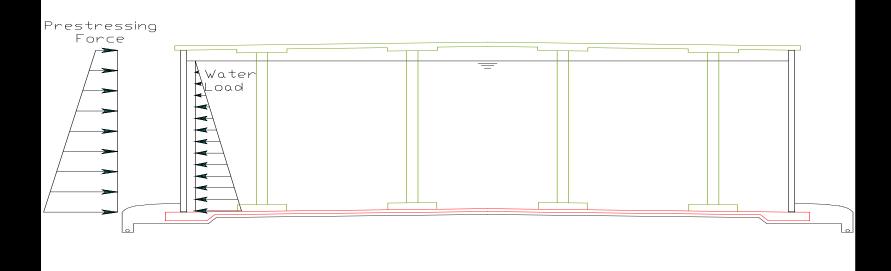
Examples of Rehabs

Understanding the design of your tank

Fixed or Free Base Connection?

How will each handle the load?



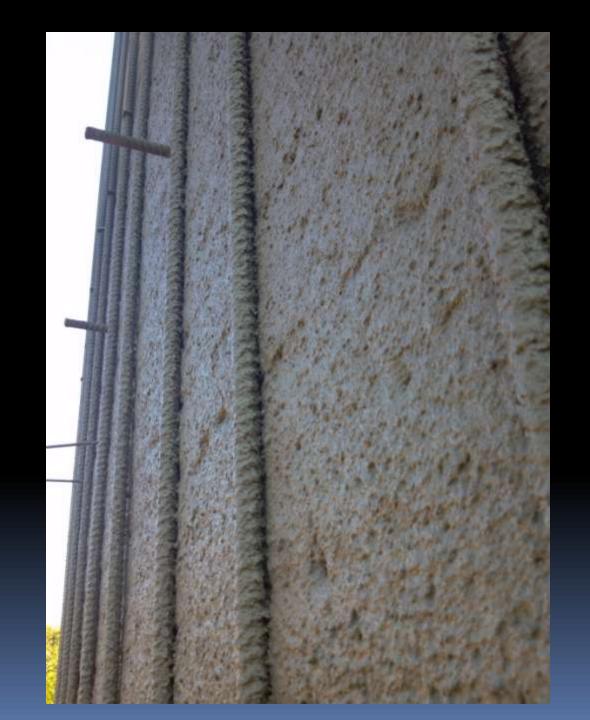




Seismic Upgrade to a Reinforced Concrete Tank











Key to a good rehab is Preparation

Rehabilitation - Repairs



Rehabilitation - Repairs













0.75 MG Bolted Steel Reservoirs

Location: Cincinnati, OH

Problem: Leaking of concrete riser and insufficient structural steel

Calcium stains and leaking due to insufficient structural reinforcement





Hydraulic valve control system penetrations through wall - leaking

3 x 0.75 MG Bolted Steel Reservoirs



Lay out of unbonded cable system



0.6 diameter galvanized cables installed with friction pads, ready for stressing

3 x 0.75 MG Bolted Steel Reservoirs



Stress application of 0.6 diameter galvanized strand. Layout and force requirements by DYK Engineering.



Spalded area due to corrosion



Same area patched after sandblasting and prep for non-shrink cemetitious material

Engineering – Design Support Services

- Technical Assistance
 - Evaluate Deficiencies
 - Make Recommendations Based on Experience
- Specifications & Details
 - Provide Technical Specifications & Details
 - Contractor Qualifications
- Project Execution
 - Experienced Concrete Tank Inspection/Rehab/Retrofit Specialist

Questions?