

A closer look at

Water Tank Maintenance Programs

A different approach to protecting and
prolonging the life of your capital assets



Water Tank Maintenance 101

Replacement Construction Cost:

\$1.50 to \$3.00 per gallon of storage



500,000 gallon
elevated tank



3,000,000 gallon
ground reservoir



8,300,000 gallon
ground reservoir

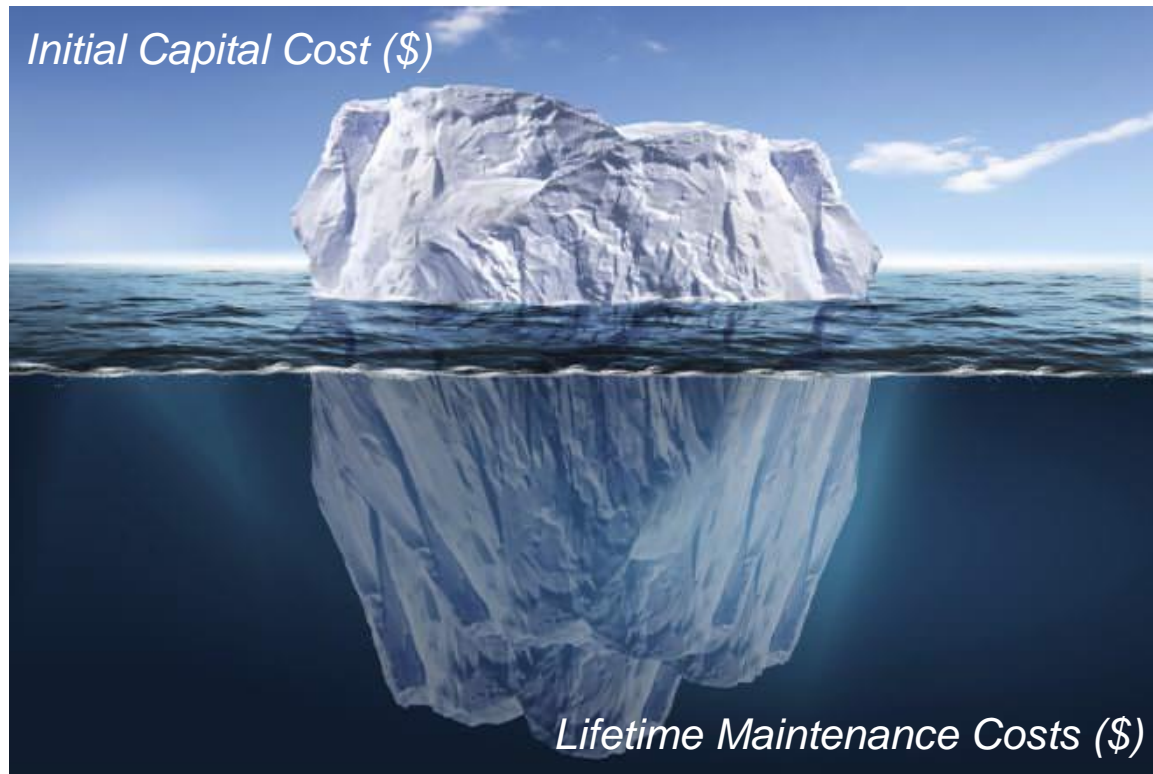


5,000,000 gallon
ground reservoir

Nearly 17,000,000 gallons of storage in the City of Brighton's potable water storage system.

Over \$30M in water storage assets

Water Tank Maintenance 101



Total life-cycle maintenance costs are usually **one to two** times the capital cost of a water tank asset.

Water Tank Maintenance 101

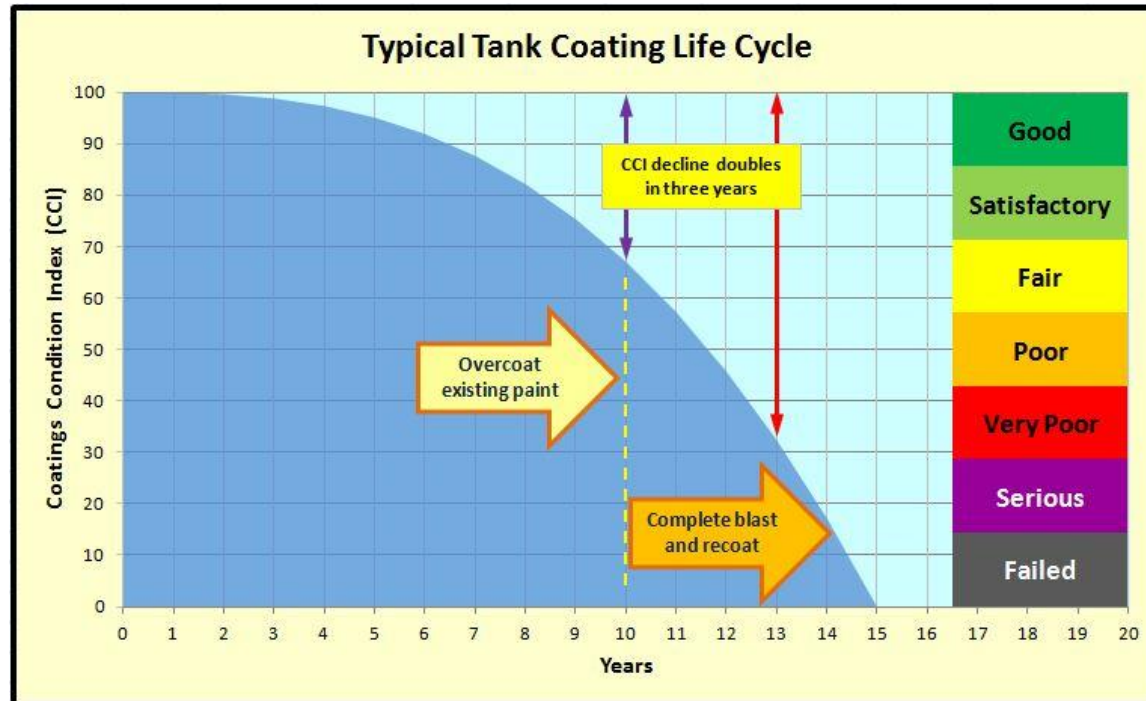
Typical design service life of 75+ years.

Given a practical maintenance schedule, the functional life can be extended indefinitely.



Water Tank Maintenance 101

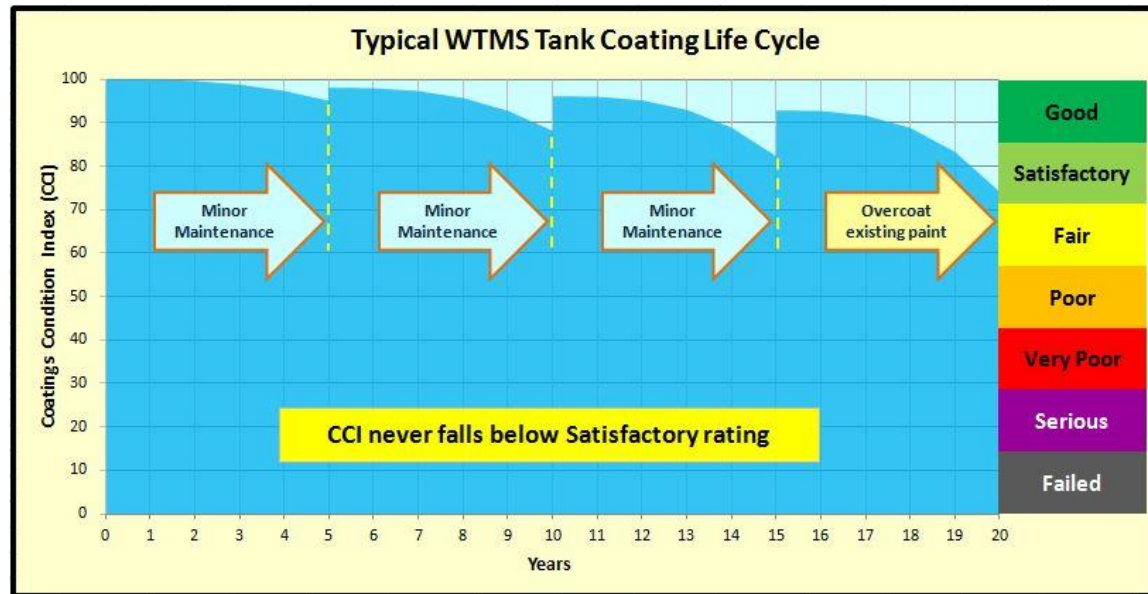
“Paint it and forget it...”



Desired coating life: 15-20 years

Water Tank Maintenance 101

Pro-active maintenance approach



Ongoing maintenance extends the duration between major rehabilitations projects.

Water Tank Maintenance 101

The Typical Approach
(design-bid-build)

A Different Approach
(maintenance contract)

How do the two methods compare?

The Typical Approach (*design-bid-build*)

A Different Approach (*maintenance contract*)

Preliminary tank inspection	\$	✓	Included
Inspection report	\$	✓	Included
Identification of project scope	\$	✓	Included
Construction plans/work orders	\$	✓	Included
Project specifications	\$	✓	Included
Project cost identification	\$	✓	Locked, not an estimate

How do the two methods compare?

The Typical Approach (*design-bid-build*)

A Different Approach (*maintenance contract*)

Bidding assistance		 Not necessary
Final project cost		 Total cost locked from onset
Project contractor		 Pre-determined
Contractor experience		 References available
Contractor safety record		 Ability to research record
Tank inspection and oversight		 Included

How do the two methods compare?

The Typical Approach (*design-bid-build*)

A Different Approach (*maintenance contract*)

Warranty on workmanship

1-2
years



Up to 10 years

Final invoice

Due at
completion



Spread costs over contract

Routine tank maintenance



Included

Annual inspections



Included

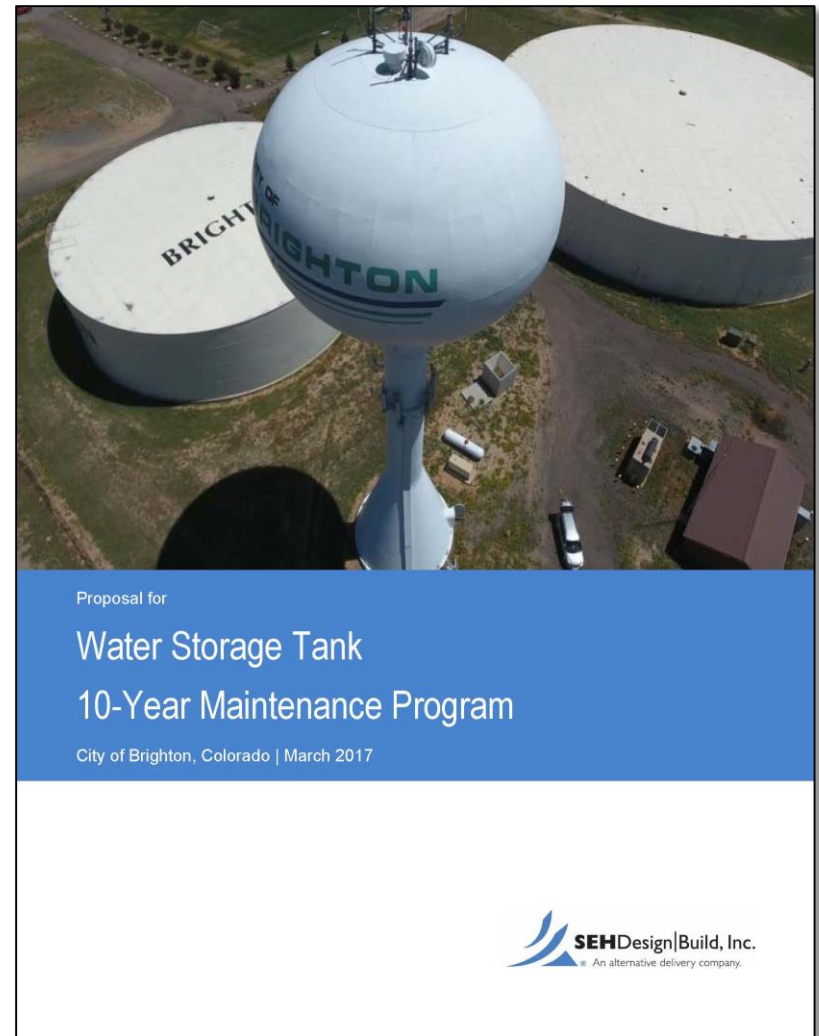
Periodic tank cleaning



Included

Tank Maintenance Proposal

- Compliance with CDPHE, AWWA and OSHA requirements
- Proactive protection of your water storage facilities
- Extend functional life and push out capital replacement costs
- Comprehensive 10-year maintenance and warranty
- Spread out rehabilitation costs over the contract term
- All at a competitive price



Other Questions



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Thank you!