

Leaking Acid Neutralization Tanks & Piping

CUSTOMER
Medical Office

DATE OF APPLICATION
December 2010

LOCATION
New York

SUBSTRATE
Cast Iron and Carbon
Steel (A36)

PROBLEM

After a raw sewage spill above the Chief Medical Examiner's desk, the sewer and acid waste systems at one of the busiest morgues in the US were found to have extensive corrosion and deterioration.

Due to the age of the building and limited access to the piping, traditional replacement would prove costly and would require a years-long relocation to a temporary facility while work was completed.

Mechanical Epoxy Solutions mobilized within two weeks to address the failing sewer piping and neutralization systems, including cracked ceramic tanks. Access to the piping network was achieved without demolition of walls or floors and without disrupting daily operations.

Following a detailed inspection:

1. A specialized non-destructive pipe cleaning was performed to restore piping to its original internal diameter.
2. Cured in place pipe (CIPP) liners were installed throughout 100% of the gravity sewer and laboratory waste piping, creating a new structural pipe within the existing system.
3. Technicians applied structural epoxy to the three cracked acid neutralization tanks, eliminating active leaks and extending the service life of the tanks.

The combined solution restored system integrity and eliminated active leaks.

- The facility's laboratory, sewer, and acid waste systems were restored without demolition or disruption to critical morgue operations.
- The morgue avoided an estimated cost of one million dollars related to traditional repair.
- The smooth interior of the epoxy-lined piping is corrosion resistant and will increase flow by preventing tuberculation and clogs.

SOLUTION

BENEFITS



Fig. 1 Inspection of piping



Fig. 2 Preparation of CIPP liner



Fig. 3 Coated vessel