

Why inspect-to-clean?



The November 2014 NASSCO guidelines for cleaning and CCTV inspection introduced a shift in strategy to comprehensive, fact-based operations and maintenance and capital improvement decision making for collection systems operators and managers.

The cities included in this study after adopting the inspect-to-clean process are outlined here. Review of these assessment records showed consistent, predictable failure modes of assets related to obstructions.

CITY	POPULATION	YEAR FOUNDED	COLLECTION SYSTEM (LF)
1	900	1911	41,000
2	7,042	1817	92,000
3	3,763	1828	85,700
4	8,500	1880	358,650
5	16,525	1686	377,850
6	89,900	1748	940,000
7	10,500	1704	123,200

The result...



7 cities
worth of data gathered



2,000,000 LF
of pipe inspected



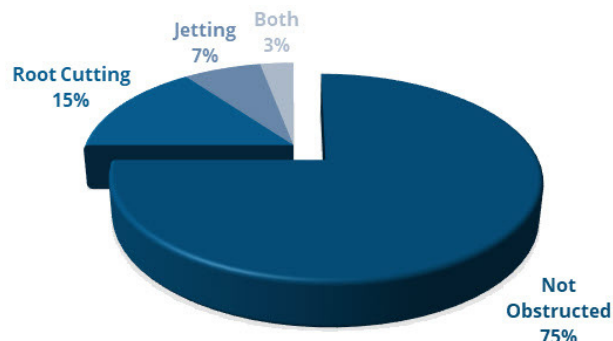
20%
of the systems were
significantly obstructed



75%
of pipes required no
cleaning



30%
cost savings



Save **\$100,000** over the course of a 200,000 LF inspection

Comparison of traditional (clean-to-inspect) methods versus RedZone's inspect-to-clean methodology in a city with 200,000 LF of pipeline.

Traditional Methods

\$350k
Clean-to-inspect

Clean and inspect 200,000 LF at \$1.75/ft

RedZone Robotics

\$250k
Inspect-to-clean

Inspect 200,000 LF at \$.90/ft
Clean 40,000 LF at \$1.75/ft

