



The Choice for Collection System Solutions

Typical Chicago Area Private Sector Infiltration/Inflow Sources

Category	Investigation Procedure(s)	Typical Rehabilitation/Removal Procedure	One Year 60 Minute Storm Flow rate (gpm)	Typical Rehabilitation/ Disconnection Cost Range	Notes
1) Internal Building					
A) Sump Pumps					
Storm Sump to Sanitary	Internal Building Inspection	Disconnect Sump Discharge and reroute overland to rear or side yard	5.0-7.0	\$300 - \$750	Sump discharge location sometimes requires dye testing for confirmation
Storm Sump with Diverter Valve	Internal Building Inspection	Remove valve/disconnect discharge from sanitary sewer	5.0-7.0	\$300 - \$750	Sump discharge location sometimes requires dye testing for confirmation
Combination Sump	Internal Building Inspection	Install new sanitary ejector sump and reroute existing sump discharge overland to rear/side yard	5.0-7.0	\$2,500 - \$5,000	Laundry tubs and or basement washroom/toilet is typical configuration
Unsealed Sanitary Sump	Internal Building Inspection	Install new storm sump, reroute discharge to rear or side yard	5.0-7.0	\$1,500 - \$3,000	Most unsealed sanitary sumps have a gravel bottom
B) Directly Connected Foundation Drain	Internal Building Inspection/ Smoke Testing	External excavation to disconnect foundation drain from lateral Installation of new storm sump with discharge routed to rear/side yard	5.0-7.0	\$5,000 - \$10,000	Most homes in Chicago area with full basement and <u>no</u> sump pump have a directly connected foundation drain
2) External Building					
Patio/Area drains	Smoke/Dye Testing	Disconnect /install new storm sump and route to rear/side yard	1.0 - 10.0	\$2,500 - \$5,000	Drains can be plugged or trapped and may not show up in smoke testing
Downspouts	Smoke Testing	Disconnect and reroute overland to rear yard	5.0 - 20.0	\$100 - \$500	Some disconnected downspouts are not properly sealed/plugged
Stairwell/Window Well Drains	Smoke/Dye Testing	Disconnect /install new storm sump and route to rear/side yard	0.5 - 2.0	\$2,500 - \$5,000	Drains can be plugged or trapped and may not show up in smoke testing
Reverse Slope Driveway Drains	Smoke/Dye Testing	Disconnect install storm sump in garage and route discharge overland to rear/side yard or directly to storm sewer	5.0 - 25.0	\$2,500 - \$10,000	Drains can be plugged or trapped and may not show up in smoke testing
3) Service Lateral					
Cleanout/Cleanout Cap	Smoke Testing	Replace cleanout cap/repair cleanout riser	0.5 - 2.0	\$100 - \$500	Some communities ordinances specify that service lateral connection and lateral up to the property line or the cleanout are "public" sector
Defective lateral	Smoke Testing	Full Lining including Cleanout	0.5 - 3.0	\$5,000 - \$7,000	T-Liner with vacuum excavation for cleanout installation
	Lateral Television Inspection	Full Lining without Cleanout		\$3,500 - \$5,500	T-Liner
		Excavation/replacement		\$5,000 - \$15,000	
		Pipe Bursting		\$10,000 - \$15,000	Limited application to date in Chicago reea
Defective Lateral Connection to Main	Main Sewer Television Inspection	Lining with Top Hat	0.5 - 3.0	\$1,500 - \$2,000	
		Grouting		\$500 - \$1,000	All connections on a Line Segment would be grouted
		Excavate and replace		\$5,000 - \$15,000	