

## Methods for Rehabilitation: Service Laterals & Tap Connections

Clearly, based on a community's circumstances, there is not one methodology that rules, but there are guidelines that honor priorities. Referencing the Decision Support Matrix, draw your own conclusions for the optimum trenchless methodology for rehabilitating service laterals in your community.

Decision Criteria	Lateral Injection Grouting	CIPP Lateral Connection Lining	Pipe Bursting	Open Cut
<b>Time to Benefit</b>	Immediate	1-2 days	3-4 days	5 days
<b>Disruption to Owner</b>	None	Minimal	Moderate	Considerable
<b>Disruption to Community</b>	None to Minimal	Minimal	Moderate	Considerable
<b>Cost per Lateral Tap Connection</b>	\$350 - \$450	\$1,500 - \$3,000	\$1,000 - \$1,500	\$1,000 - \$1,500
<b>Cost per Lineal Foot</b>	\$20 - \$25 per Lineal Foot	\$60 - \$75 per Lineal Foot	\$80 - \$90 per Lineal Foot	\$100 per Lineal Foot
<b>Longevity</b>	25 years (WEF, 2017)	50 Years	50 Years	50 Years
<b>Advantages</b>	Least cost, lateral trench stabilization, no reduction of capacity.  Air test before and after to validate seal.	Full pipe renewal minimally invasive	New HDPE or PVC pipe installed and upsized as necessary	New HDPE or PVC pipe installed and upsized as necessary
<b>Disadvantages</b>	Non-structural only, no renewal of pipe	High cost, may not stop infiltration.  Many systems require cleanout .	Costly and requires access pits	Most disruptive
<b>Other Considerations</b>	Whether or not a structural solution is needed	Need to specify seals, clean out most likely required	Access/disruption to surface, soil type, heave potential , surrounding utilities	Surface restoration, surrounding utilities, down time