

Field Deployment of Airborne Cleaning and Lining Technology for Polymeric Lining of Water Pipes

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This paper presents a Canadian case study for the field deployment of a new water-main pipe cleaning and lining technology that provides superior water main cleaning and drying followed by the rapid application of a bonded, low-cost, NSF-61, polymeric barrier lining.

The ability to quickly increase potable (fire) water flow volumes at reduced operating pressures while eliminating red-water complaints, improving pipe C Factors, reducing waste, reducing construction footprint, and extending the service life of aging water distribution pipes results in significant cost savings for municipal water utilities.

This paper documents the field validation of this rehabilitation system for use in potable water pipes and presents the rationale for early adoption by municipal water authorities facing comprehensive asset renewal programs for their aging distribution mains.