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**Abstract Title:** Slip-lining Douglas Rd. Watermain No. 1

**Abstract Theme:** Trenchless Project Planning, Design, Construction, and QA/QC

**Abstract:**

Metro Vancouver is in the process of transferring a 380m long, 900mm diameter steel watermain to a member municipality. This municipality will have a lower flow demand on this main and therefore wanted to ensure flow and velocity can be maintained at appropriate levels. Metro Vancouver elected to use slip-lining technology to downsize this pipe.

The challenges offered by this project are focussed around the pipe's high pressure and steep elevation change. Careful consideration had to be given to selecting pipe material, fixtures and fittings to address the operating pressure. Secondly, the significant change in elevation from one end of the project to the other required careful, design, planning, and strong co-operation between the Contractor and Design Consultant to ensure the integrity of the pipe lining.