

**Paul Nicholas**  
***Senior Consultant***

Résumé

BSc Geology – University of London

Member of the International Society for Trenchless Technology (ISTT)

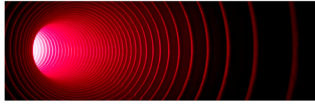
Paul Nicholas is a Senior Consultant with Jason Consultants and has 24 years of tunnelling, microtunnelling and pipe jacking experience from a worldwide perspective. He is a recognised industry expert in microtunnelling equipment and operations and has supported clients across many cultural environments.

Paul's experience includes microtunnelling project design and management, geotechnical analysis and review, equipment selection and equipment manufacture management, site operations and project management, contract negotiation and litigation support.

Paul has extensive experience with international equipment manufacturing companies and has previously managed sales, marketing and consultancy roles around the globe with emphasis on the development of worldwide markets for tunnelling, microtunnelling and other underground equipment.

He is a former executive director of NASTT (North American Society of Trenchless Technology) and is a well-known presenter at industry conferences internationally, including, for the last 10 years, as speaker at the renowned Colorado School of Mines "Microtunnelling Short Course". He has also authored many leaders and articles for industry publications.

Paul brings to projects his geological experience and expertise and his technical expertise in the use of soft and hard ground tunnelling and microtunnelling equipment. This includes equipment selection and specification, risk evaluation, assessment and quantification and constructability evaluation and review. As a geologist, he is equipped with a detailed knowledge of the subsurface environment and how the subsurface environment impacts potential projects and those under construction.



## Project Experience (Selective)

**Melbourne link sewers, Australia.** Constructability advisor for 2km of 300mm and 500mm diameter sewer pipelines using with Pilot tube and slurry microtunnelling methods.

**Redmond collector, Seattle, WA, USA.** Expert Witness on Contractors claims for change of Condition on a 250m 1350mm diameter microtunnelled pipeline.

**Tuas Interceptor, Singapore.** Contractors advisor for tunnelling equipment selection and project construction of 3km of 2.2m diameter pipeline with drive lengths of 300m.

**Tiete river project, Sao Paulo, Brazil.** Contractor's consultant advising on the design and construction of 4km of 600mm diameter microtunnelling.

**Bangkok sewer, Thailand.** Advisor on construction methodology for 2km of 800mm diameter pilot tube microtunnelling

**Tolt Crossing, Seattle, WA, USA.** Contractor's consultant Contractor for equipment and construction methods on this 700m, 2.2m diameter deep river crossing through ground containing boulders and buried trees and an artesian charged water head.

**Boston River Crossing, Boston, MA, USA.** Advisor on constructability and design and machine specifications for a 300m 1800mm diameter deep river crossing through Glacial till with Granite boulders. First use of airlock microtunnelling system in the USA.

**Sukhimvit Collector, Bangkok, Thailand.** Consultant advisor on special EPB microtunnelling systems and construction methods for this 29km, 3m diameter tunneling through soft ground.

**Perth Collector system, Australia.** Consultant advising on the use of pilot tube microtunnelling on a large 3km, 300mm diameter sewerage collection system.

**San Diego Gas and Electric, California, USA.** Advisor to the first hard rock microtunnel drive to be completed in North America. Difficult conditions for 80m of 1500mm diameter pipe through 150mpa compressive strength Andesite.

**Santa Ynez River crossing, California, USA.** Consultant providing advice on the installation of shafts and microtunnelling for 500m of 1500mm diameter pipeline.

**New St James Ave collector, Boston, MA, USA.** Constructability advisor to design consultant and contractor for 1400m of 900mm diameter "pipe eating" microtunnelling.

**PSE&C cable ducts, Jersey City, NJ, USA.** Advisor to project following failed Auger bore. Project changed to 200m of 900mm diameter microtunnelling below Port Authority of New York transit tunnels.

**Fuel Line, Tampa Airport, FL, USA.** Construction consultant (method and technology) for 600m of 900mm diameter pipeline.

**Water Intake at Keahole Point, Hawaii, USA.** Project designer and Construction Management support for 200m of 1650mm microtunnelling through Basalt rock.

**Millwoods district, Edmonton Canada.** Construction Management consultant and equipment advisor for 1000m or 500mm diameter microtunnelling through Boulder Clay.

**Golf Course RD – Interceptor, Austin, TX USA.** Microtunnelling Project management consultant for 650m of 1350mm diameter pipe installed through weak Limestone Rock.