

Creating Space Underground

Brierley Associates specializes in tunnel, trenchless, advanced geotechnical, geostructural, and construction engineering.

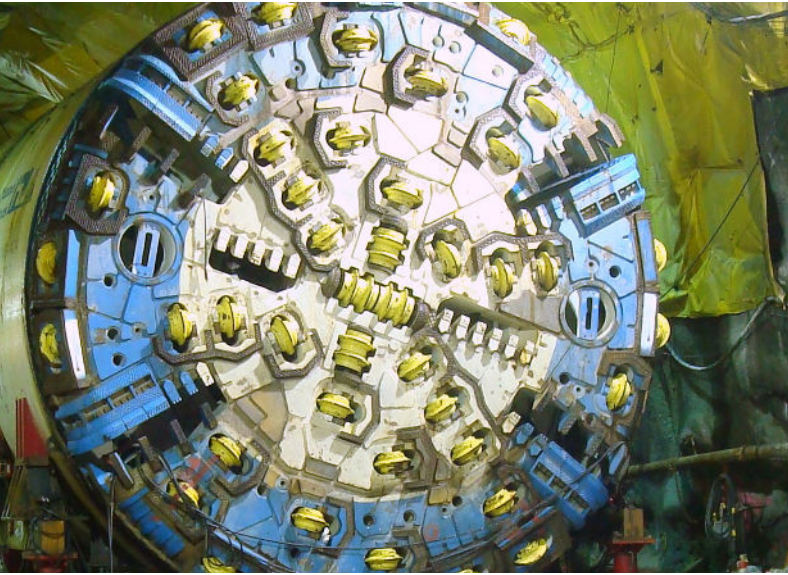
We deliver intrinsic, recognizable value to our owner, A/E firm, and contractor clients by focusing on constructability, efficiency and practicality.



Underground Engineering Services

Brierley Associates is dedicated to delivering well designed and constructed underground projects. We understand the importance of ground behavior and its effect on the design and construction of your project. Our objective is to deliver well balanced projects, with proper consideration of design, risk and constructability:

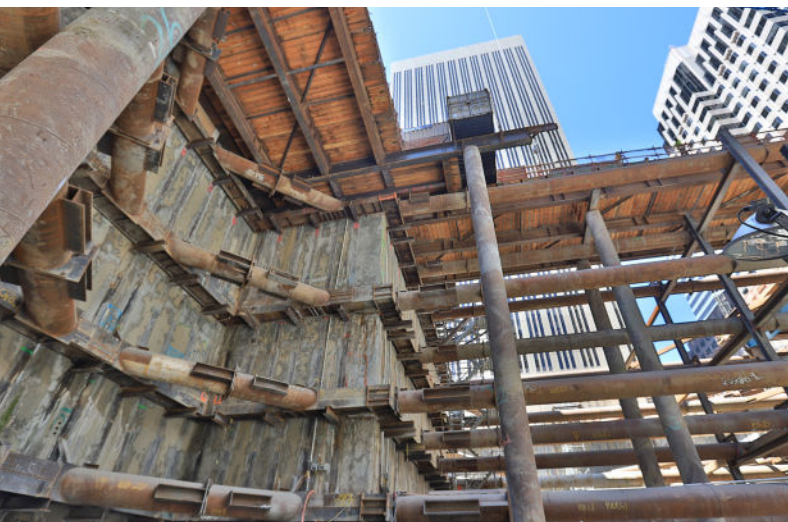
- Design of Hard Rock & Soft Ground Tunnels
- Shafts & Microtunnels
- Geotechnical Data & Baseline Reports
- Feasibility Evaluations & Peer Review
- Value Engineering
- Blasting Design
- Temporary Structures Design
- 3D Finite Element Modeling



Land Subsidence Mitigation

Through rigorous subsurface investigations, we develop GIS-based spatial analysis integrating both historic and recent data. This is our platform to develop evidence-based design and constructable solutions.

- Focused Site Exploration Programs
- Abandoned Mine Risk Analysis and Mitigation
- Specifications and Contract Packaging
- Mitigation Program Design
- Grout Mix Design
- GIS Spatial Analysis
- RTK Based Drone Imagery
- Construction Management



Geostructural Design

Brierley Associates geotechnical and geo-structural professionals have extensive experience in the analysis and design of:

- Underpinning
- Deep Foundations
- Complex Support of Excavation Systems
- Jacked Box Tunnels
- Permanent Earth Retention Systems
- Temporary & Permanent Shaft Support
- Temporary Support of Excavation (SOE) Systems
- Virtual Design and Construction
- BIM for Underground Applications

Advanced Geotechnical Design

Brierley Associates offers advanced design and construction phase services:

- Subsurface Investigations
- Geologic & Geotechnical Mapping
- Deep & Shallow Foundation Design
- Earth Retention System Design
- Construction Dewatering Analysis
- Seismic Hazards Evaluation & Mitigation
- Landslide Evaluation & Stabilization Design
- Rock Fall Hazard Assessment & Mitigation
- Ground Improvement Engineering
- Geotechnical Instrumentation & Monitoring
- Forensic Engineering, Claim, & Dispute Resolution



Trenchless Technologies

Brierley Associates supports owners, design professionals and trenchless/geotechnical contractors with all aspects of trenchless technology. We are consistently ranked within the top 30 Trenchless Design firms as reported by Trenchless Technology. Our geologists, trenchless and underground engineers know how to deliver efficient, effective and constructable designs for:

- Horizontal Directional Drilling (HDD)
- Microtunneling
- Auger Boring
- Pipe Jacking/Pipe Ramming
- Direct Pipe
- Guided Boring Method (GBM)
- Hand Mining
- Pipe Rehabilitation, Relining, & Bursting

Blasting

Our North American experience allows us to understand the various ground conditions, challenges, and perceptions involved with urban and close-in blasting design, underground construction, and vibration issues.

- Blast Plan Development and Design
- Blast Vibration Consulting
- Peer Review
- Blast and Construction Vibration Monitoring
- Damage Claim Assessments and Support
- Explosives Evaluation and Recommendations
- Regulatory Compliance

Construction Engineering

Brierley Associates' geotechnical engineers have real-life experience to develop a wide range of efficient and constructable designs for:

- Heavy Lifts & Below the Hook Lifting Devices
- Formwork & Falsework
- Cofferdam & Excavation Support
- Trestles & Work Platforms
- Rebar Cage Handling & Stability
- Tower Crane Foundations & Working Surfaces
- Marine Engineering

Creating Space Underground - Coast to Coast

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Constructability, Efficiency, & Practicality

Brierley Associates' tunnel, trenchless and geostructural design and consulting services are founded on a keen understanding of our clients' needs, subsurface conditions, site-specific constraints and the risks associated with the construction of tunnels, underground facilities, and heavy civil infrastructure projects.

Brierley Associates qualifies as a small business as defined by the U.S. Small Business Administration under NAICS code 541330-Engineering.

Business & Engineering Focus

- Tunnels, Shafts & Caverns
- Trenchless Technology
- Geostructural Design
- Construction Engineering
- Advanced Geotechnical Engineering
- Design-Build Project Delivery
- Abandoned Mine Land Mitigation

Market Sectors

- Water, Wastewater
- Stormwater-Combined Sewer Overflow
- Contractor Support
- Transportation
- Utilities
- Deep Excavations for Vertical Construction

Contact Us

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Email: marketing@BrierleyAssociates.com

**BRIERLEY
ASSOCIATES**
Creating Space Underground

Brierley Associates' North American and international experience allows us to anticipate and assess challenges involved with design and construction of underground infrastructure.

Our operating philosophy is based on partnership and honesty with each other, our clients and peers. Our team of engineers and geologists believe that trust is the greatest form of human motivation and we strive to make our clients glad that they came in contact with us.



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