



Backfill Operations Support Services

Paterson & Cooke is an industry leader in backfill design and operation. We combine our strength in engineering, troubleshooting and operational experience to support your backfill operation. This can include supporting a one-time specific need or providing support on an ongoing basis.

Key Services Offered:

Process Review and Operations Support

Benefit from the Paterson & Cooke cumulative backfill experience in looking at your system from a fresh perspective; keeping in mind the critical interaction between mining and processing operations.

Process Reviews

- Process performance
- Chronic issues
- Analyse production data
- Hydraulic modelling
- Plant and underground distribution system analysis
- Downtime analysis

Operations Support

- Equipment issues
- Pumping issues
- Failure analysis
- Backfill recipe development
- Quality deficiencies
- Backfill stope design
- Operating practices

Secondments

- Backfill engineering
- Laboratory
- Quality control

Site Specific Training

Backfill system operation improves as teams are equipped with the backfill fundamentals necessary to interpret the operating data correctly and make informed decisions. Paterson & Cooke provides the following training and can work with clients to develop effective training modules.

- Site specific backfill engineer training
- Operator training
- General backfill awareness
- Quality control and laboratory training

Execution and Commissioning Support

Our experienced operations team supports the implementation of our own and third-party backfill system designs. We recognise that the startup does not end with the first successful delivery of backfill; we provide ongoing support as the site ramps up production.

- Process support during execution
- Commissioning of the backfill plant
- Commissioning of the underground distribution system

Operational Readiness / Backfill Management System Support

A critical part of operational readiness, backfill management focuses on the essential backfill system practices which support a safe, sustainable and quality backfill process. The process can be developed from scratch for greenfield projects or start with a gap analysis of the current system.

Some Key Backfill Management System Elements

- Operational structure
- Production reporting
- Production databases
- Quality control
- Maintenance
- Backfill stope design process
- Engineering standards
- Stope strength requirements
- Stope reconciliation
- Training and procedures
- Staffing requirements
- Job descriptions

Through P&C's technology affiliate, MineSmart Solutions, we are also able to offer Backfill PRO, a unique backfill management software product. The software allows backfill operators to tailor backfill recipes, considering stope location, rheology and the backfill strength time relationship, offering increased confidence in the backfill product and minimisation of cement use. The software also allows for central management of information pertaining to the backfill operation. For more information, please visit www.backfillpro.com/.

Group Capabilities

- Tailings & Mine Waste
- Slurry Pipeline Systems
- Mine Backfill
- Mineral Processing
- Mine Services
- Marine Pipeline Systems
- Laboratory Services

Contact Us

AUSTRALIA PERTH:

+61 (8) 6355 5166
Perth@PatersonCooke.com

CANADA SUDBURY:

+1 (705) 222 1720
Sudbury@PatersonCooke.com

CHILE SANTIAGO:

+562 3293 8300
Santiago@PatersonCooke.com

SOUTH AFRICA CAPE TOWN:

+27 (0) 21 531 2955
CapeTown@PatersonCooke.com

JOHANNESBURG:

+27 (0) 11 258 8943
Johannesburg@PatersonCooke.com

SPAIN MADRID:

+34 669 857 147
Madrid@PatersonCooke.com

SWEDEN STOCKHOLM:

+46 (0) 793 361 615
Stockholm@PatersonCooke.com

UNITED KINGDOM

CORNWALL:

+44 (0) 1872 561 263
Cornwall@PatersonCooke.com

USA

DENVER:

+1 (303) 800 6280
Denver@PatersonCooke.com