

Evolving to bring you more



Stantec and safety

Our goal is to carry out our work with zero harm to people and the environment.

The way we treat our people, our clients, and our neighbors reflects who we are, what we believe in, and how we do our work. At Stantec, we believe in doing what is right. We are committed to providing and maintaining a healthy and safe workplace and to ensuring that our staff return home injury-free every day.

We recognize that our work involves risks, but we believe that we can address these risks if we manage them using a dynamic health and safety management system. Our senior leadership has pledged their accountability for our health and safety performance.

To achieve our goal, we take a proactive approach—regularly conducting audits and inspections, providing training, sending regular communications, and maintaining stringent hazard recognition and control. When incidents occur, we share the lessons learned to avoid reoccurrence and to improve our practices. Through training, communication, and our Health, Safety, & Environment policy, we strive to create and nurture a health and safety culture at Stantec where everyone takes responsibility for their own safety and for the safety of others.

We believe that, ultimately, every Stantec employee has a role to play in maintaining and promoting a healthy and safe work environment.

Stantec is stronger than ever

Recent acquisitions and organic growth allows us to offer environmental and engineering services to the mining industry in more creative and responsive ways. We're excited about this evolution because it means we can bring you more services, performed by people who, like us, make sure that our relationship is the number one priority. You will continue to see the same people doing business with you the same way, and with the same goal: to safely deliver the highest level of service while always striving to exceed your expectations.

We're better together

HOW WE'VE EVOLVED

2008

Stantec's acquisition of McIntosh Engineering, an industry leader for underground excellence in mine design, gave us capabilities in mining engineering and project management of surface and underground operations

2016

Stantec completed its largest-ever acquisition with MWH Global, Inc. (MWH), a 6,800-person firm that vastly expanded our geographic presence and added to our expertise in tailings dam design and environmental services

TODAY

With more than 800 employees dedicated to mining and office locations around the globe, we have the expertise and resources to take on the largest and most challenging projects. Together, we are part of the Stantec team, which comprises over 22,000 employees in over 400 locations globally.

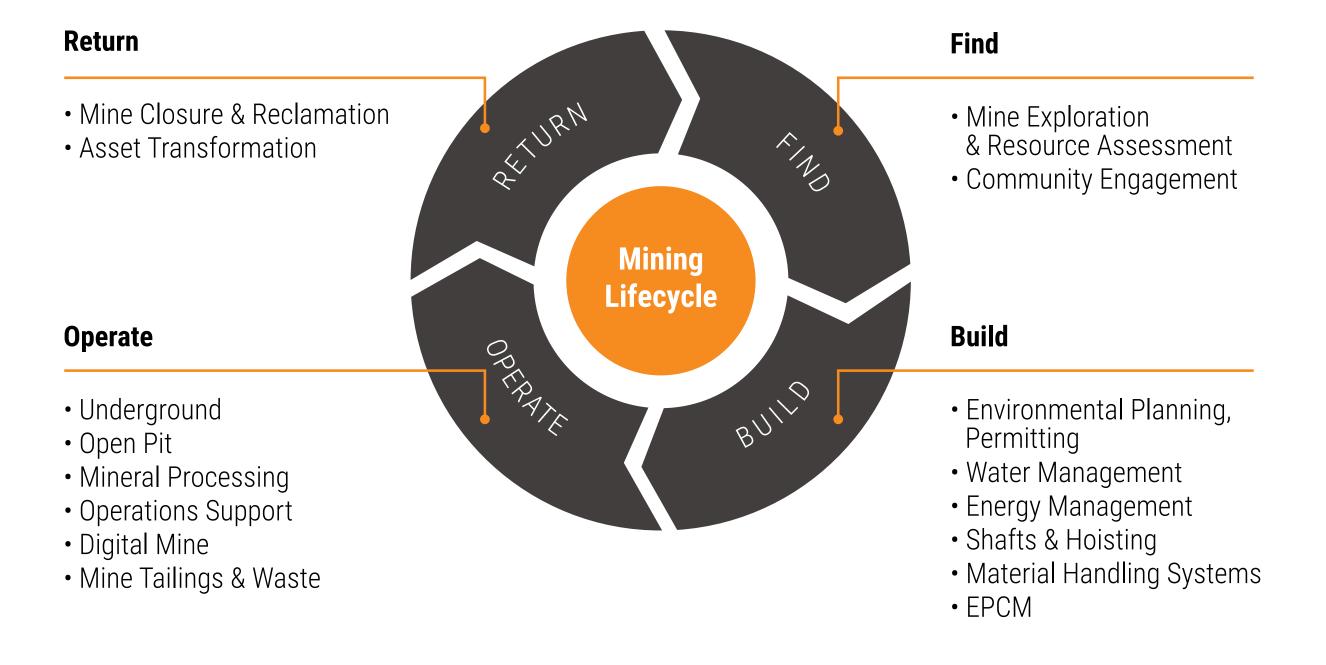
2014

Stantec acquired JBR
Environmental Consultants,
Inc. and USKH, Inc.,
which enabled us to offer
additional services related
to environmental studies,
permitting, site investigation
and remediation

2018

Stantec acquired Norwest Corporation (Norwest), an energy and resources firm that provided us with specialists in hydrology, surface mine planning and drilling project management

Services at every stage





Want to dig deeper? Services you'd expect and some you don't

MINING STUDIES

Conceptual/scoping studies

Prefeasibility studies

Feasibility studies

Property assessment

 Soil and bedrock investigation (land and marine)

• Open pit and underground mine design

Reserve estimation

• 43-101 Management

• Qualified Persons for 43-101 Studies

Due diligence/third party review

Cost and schedule estimating

SHAFTS & HOISTING SYSTEMS

• Shaft and headframe design

Shaft sinking/constructability

Headframes

Mine hoisting systems

Underground mine access development

MATERIAL HANDLING SYSTEMS

Material transport systems and equipment

Underground and surface crushing and sizing

Transfer chutes and bins

Computer software expertise

MINE VENTILATION SYSTEMS

Design of new systems

Tailing Management

Facility Design, Mine

Water Management

and Treatment, and

Cajamarca, Peru

 Evaluation of systems and operational support

Computer modelling and simulations

• Computational fluid dynamic analysis

MINE POWER

Power supply permitting

Power studies

Power generation

• Emergency/auxiliary power systems

Utility interconnection studies and services

Transmission and distribution

Transmission lines

Substations

Site power distribution systems

In-pit power systems

Communication systems and SCADA

PROJECT DELIVERY & EPCM SERVICES

Engineering and design management

Scoping, preliminary and detailed engineering

Risk and constructability

Operability/maintainability

Field engineering

Drawing management

Project management services

Project management

Project controls

Document control

Supply chain management/ procurement

Procurement and contracts

Expediting

Logistics

 Vendor document management and surveillance Construction management

HSE management and monitoring

Quality assurance and control

Field inspections

Contract administration

Cost control and reporting

Temporary facilities and services

Warehousing and receiving

Environmental monitoring

OPERATIONS CONSULTING

Safety audits and MSHA training

Mine development

• Equipment selection

Mining cycle analysis

Production sequencing

Ground support assessment

Operations assessment

Infrastructure review

ENVIRONMENTAL APPROVALS& PERMITTING

Regulatory support and strategy

Baseline studies

 Environmental assessments (EIA, ESIA, EA, EIS, EIR)

Environmental permitting

Risk and mitigation planning

Compliance, auditing and monitoring

Closure planning

Socioeconomic impact assessments

 Community and public outreach/ involvement

Aboriginal/indigenous relations

WATER MANAGEMENT

- Water resource evaluation, development, storage and supply
- Water and wastewater active/ passive treatment
- Water quality modelling assessments
- Treatability testing and process optimization
- Dewatering, impact prediction and management
- Water balance modelling
- Compliance monitoring
- Watershed/aquifer catchment-based management and restoration
- Managed aquifer recharge
- Hydraulic/hydrologic modeling and structures
- Stormwater management
- Water diversion and flood control
- Pumping, storage and pipeline transmission systems
- Dams/levees/impoundments design and safety inspections

TAILINGS AND MINE WASTE MANAGEMENT

- Mine waste management and containment systems
- Alternative disposal technologies
- Waste minimization and source reduction
- Reclamation and closure plans
- Site evaluations
- Feasibility and treatability studies

- Reclamation and landfill engineering
- Cover and liner systems
- Construction supervision (QA/QC)
- Dam safety inspections and dam safety reviews
- Preparation of operation, maintenance, and surveillance manuals
- Closure planning

NATURAL ENVIRONMENT

- Baseline studies for terrestrial and aquatic environments
- Fisheries Act (DFO) approvals for changes to fish habitat
- Biological monitoring or impact assessments related to wetlands, wildlife, fisheries, and the aquatic environment
- Water and sediment quality assessment
- Chemical speciation and water quality modeling
- Environmental Effects Monitoring (EEM)
- Species-at-Risk (SAR) assessments and approvals
- Benthic invertebrate sampling and in-house taxonomy and data interpretation
- Habitat creation, enhancement and compensation plan design
- Fluvial geomorphological assessment and natural channel design
- Noise and air quality monitoring, meteorology

HUMAN ENVIRONMENT

- Socioeconomic impact assessments
- Consultation and public outreach
- Open houses, public meetings and negotiations with communities
- Aboriginal/indigenous engagement strategies and outreach
- Human health risk assessments

MINE CLOSURE PLANNING & RECLAMATION

- Asset transformation planning
- Closure and decommissioning planning
- Cost estimating
- Resource recovery
- Reclamation design, implementation, and management
- Closure compliance approvals
- Cover design and landform engineering
- Ecosystem and stream restoration
- Compliance and construction monitoring
- Remediation
- Demolition and decommissioning
- Construction quality assurance and reporting
- Post-closure planning and redevelopment
- Site monitoring and reporting







TRANSPORTATION ENGINEER-ING & LOGISTICS

- Rail planning and design
- Access and haul roads
- Airstrips and terminals
- Parking lots/structures
- Bridges
- Transportation planning and traffic engineering
- Marine facilities and ports
- Pavement design and data collection
- Construction inspection

SITE DEVELOPMENT & SITE SERVICES

- Land use planning
- Underground and surface infrastructure
- Site and construction layout design
- Municipal infrastructure design
- Grading, drainage design and analyses for bridges and roads
- Landscaping

Miami Unit, Reclamation/Closure Program, Globe-Miami copper mining district in Arizon

FACILITY DESIGN & ENGINEERING

- Site selection, evaluation and servicing
- Functional programming, architecture and engineering
- Process buildings and services
- Fuel storage and receiving
- Maintenance facilities
- Accommodation complexes
- Administration offices
- Remote modular camps
- Mine dry and muster facilities
- Process engineering, modelling and optimization
- Safety and regulatory compliance
- Sustainable design/LEED certification

SURVEYING & GEOMATICS

- Topographic mapping
- Geodetic and control surveys
- Construction stakeout
- 3D laser scanning
- LIDAR and drone service

Thompson Creek Mine, Third-party EIS & Baseline Studies, Idaho, US





GEOTECHNICAL INVESTIGATIONS

- Soil and bedrock investigation (land and marine)
- Laboratory soil and bedrock testing -Construction supervision
- Construction materials investigation and testing services
- Rock and soil engineering
- Foundation and retaining system design

TELECOMMUNICATIONS

- Telemetry SCADA and control networks
- Digital/analog A/V systems, CCTV, and camp television entertainment systems
- UPS design, and power distribution
- Microwave and cellular/radio site acquisition
- Antenna and tower specifications
- Frequency coordination, Interference analysis and licensing support

MINE SURFACE INFRASTRUCTURE

- Vehicle fueling
- Explosives storage
- Compressed air plants
- Heating and refrigeration
- Hoist house design
- Mine backfill systems

MINERAL PROCESSING

- Material handling
- Crushing and grinding
- Floatation/leaching
- Concentrate dewatering and storage
- Heap leaching/ADR
- Standardization/ modularization
- Tailings disposal (conventional and thickened)

Diavik Diamond Mines Inc., Diavik Lac de Gras Underground Feasibility Study, 300km north of Yellowknife, Canada

Communities are fundamental. Whether around the corner or across the globe, they provide a foundation, a sense of place and of belonging. That's why at Stantec, we always design with community in mind.

We care about the communities we serve—because they're our communities too. This allows us to assess what's needed and connect our expertise, to appreciate nuances and envision what's never been considered, to bring together diverse perspectives so we can collaborate toward a shared success.

We're designers, engineers, scientists, and project managers, innovating together at the intersection of community, creativity, and client relationships. Balancing these priorities results in projects that advance the quality of life in communities across the globe.

Stantec trades on the TSX and the NYSE under the symbol STN. Visit us at stantec. com or find us on social media.

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