



Mining and Metals

► OUR GOAL

Work with your teams
to help create long-term value.



Engineering has transformed. So has BBA.

Mining and Metals

+20

Offices across Canada,
Chili and USA

+1.5k

Employees

+40

Years of innovation

For over 40 years, we have been intensifying our efforts to improve our practices and design cutting-edge solutions, based on industrial client needs, that are reliable, profitable and environmentally friendly.

Outside our more immediate successes, we focus on the future to create long-term value for our clients. Every day, we go beyond engineering and encourage our team members to do the same, so we can build a sustainable world together.



“Our team manages the entire project to make sure all stakeholders are well served. Our mission is to safeguard a balance between the environment, performance and profitability.”

Jérôme Pelletier, P.Eng., MBA - President and CEO

National and international reach with a local presence

Boisbriand
Calgary
Concord
Edmonton
Labrador City

Mont-Saint-Hilaire
Mont-Tremblant
Montréal
Quebec City
Rouyn-Noranda

Saguenay
Salt Lake City
Santiago, Chile
Sept-Îles
Sudbury

Terrace
Toronto
Trail
Val-d'Or
Vancouver



Our values

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0

Onsite accidents.
We stay alert for
everyone's safety.

Our success is largely due to the our highly engaged team members. With a culture based on commitment, development and complementary talents, we build lasting relationships with our employees, clients and partners. BBA's increased presence in the field provides team members with a rich professional experience, offering a broader and more accurate view of operational activities.

+91%

Client satisfaction

By 2030

Toward Net Zero

Our objective is a total reduction of our CO₂ equivalencies by 47% by 2030 compared to our 2019 baseline.

People first

At BBA, we firmly believe that health and safety must be a way of thinking, acting and living—a reflex we sustain over time. Achieving excellence in health and safety is a responsibility we all share, from executives, to managers, to employees. Our 10 golden rules target the aspects of our work that present the highest risks. We ensure the health and safety of our team and clients at all times—a principle that guides all of our decisions.

Rigour, ingenuity and collaboration

We are in the field right from the start of a project, communicating efficiently with our teams, inspiring them and giving them the autonomy that helps them get it right the first time. No matter the challenge, we tackle it together, driven by the desire to exceed expectations.

Eco-mindfulness

We are fully aware of our influence on developing environmentally-friendly projects, and we are committed to providing our clients with every possible option to reduce their environmental footprint.

At BBA, engineers, biologists and environmental experts work closely to strike the right balance between protecting the environment, controlling costs and complying with regulations.

Our culture is built on values that have stood the test of time.






Understanding today's challenges to build the future

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Our world is changing fast. Technology is part of our daily lives. The urban population is growing exponentially, as is our energy and natural resource consumption. Our industry faces numerous challenges—we can help you. We have developed unique expertise in the following markets:



Power



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Biofuels, Oil and Gas



Other industries
Pulp and paper, agribusiness, data centres and more

Our technical capabilities

We take pride in offering comprehensive multidisciplinary solutions that substantially reduce your operating costs, while maintaining an enviable track record when it comes to safety and the environment.

Planning

- Studies, audits and assessments
- Economic analysis and asset management
- Regulatory compliance

Engineering

- Design and optimization
- Equipment selection, modernization and optimization
- Project management and control

Operations

- Safety and environmental protection
- Operations and maintenance support
- Testing
- Commissioning

Our leading-edge expertise serving your mining operations

Mining companies must rethink their strategy to prosper. Each project faces its own unique set of challenges. Operations must remain robust in the face of fluctuating markets. Increasing social awareness and environmental concerns are changing the way we do business.

We understand these challenges and are continually developing creative solutions to meet these new realities and maximize operational performance.





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Focusing on innovation

This is our philosophy when it comes to implementing new technology: it must meet a real need while being profitable and efficient. Our recommendations are guided by a comprehensive and measured analysis of your operations.

We invested in these new labs to better serve the industry.

Digital power systems lab

This development, simulation and testing space for control systems, automation and power system protection lets us offer our clients proven, high-performance solutions that will integrate into their operations seamlessly.

- Use of recognized standards (e.g., DNP, IEC 61850) and cutting-edge technologies
- Interoperability testing of equipment from various manufacturers
- Complete laboratory simulation to reduce commissioning time at the site
- Training environment and upgrading of end-user knowledge
- Implementation of new solutions and digital applications



Virtual reality lab

VR allows users to immerse themselves in a virtual environment with limitless interaction. This leading-edge technology helps maximize the profitability and success of client projects while cutting costs.

- 3D plant design review and optimization for better constructability and cost reduction as well as schedule optimization
- Highly realistic simulations to improve health and safety
- Practical training in a plant model faithfully recreated from 3D digitalization or an existing model



► OUR OBJECTIVE
Ensuring digital transformation makes sense for your operations.

Proud industry 4.0 integrators

We are recognized for our expertise in operational integration, from data collection and valuation to strategic decision-making. Our success is based on applied knowledge of technologies and on our close involvement with clients at deployment.

EXAMPLES OF OUR INDUSTRIAL INTELLIGENCE SOLUTIONS:

- Use of augmented reality to access operational data from remote sites (remote experts)
- Augmented reality applications in the field to display virtual information in the real world by pointing a smartphone at an asset: maintenance information, operating status, connection diagrams, safety warnings, etc.
- Selection of a solution for predictive failure analysis and process adjustment
- Operational decision-making based on real-time equipment geolocation
- Drones with 3D and multispectral cameras for inspection and metering
- Combination of modelling technologies: drone imaging and 3D scanning
- Vibration sensor (IoT) with cloud-computing logs (public consultation context)
- Use of machine learning to detect abnormal operating situations



- Advanced industrial data analysis using Big Data technologies (temporal, transactional, unstructured data—internal and external)
- Performance indicators to monitor and optimize asset use (e.g., time lost during shift changes, reduced breakage, percentage of use)

Experts in cybersecurity

Whether your approach to optimize industrial security is imposed by law or is preventive, our cybersecurity experts ensure maximum control of your data. They have extensive experience with industrial control systems and in-depth knowledge of regulatory requirements. They can also support you with worker training to properly apply established protocols.

- Standards gap analyses: NERC, CIP, NIST, CSA Z462, OSHA 3132 and IEC
- Security risk analyses and industrial cybersecurity
- Review of work and intervention methods, awareness and training
- Industrial cybersecurity governance, engineering and operation





We can help you at every stage of your mining project

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BBA has over 500 engineers and technicians serving the mining sector.

You can count on our integrated team to optimize the performance of your installations and reduce costs, while minimizing your environmental impact. Whether it is for a new project or to improve your current performance, our customized solutions strengthen your short-term profitability and support your long-term business objectives.



Our expertise in mining and mineral processing

Having participated in many of the largest mining projects in Canada, BBA experts can assist you throughout every phase of your capital and operational activities. We are committed to supporting clients, from front-end to back-end.

- GOLD AND PRECIOUS METALS
- IRON ORE
- BASE METALS
- INDUSTRIAL MINERALS
- BATTERY MINERALS

FROM PRELIMINARY DESIGN



TO COMMISSIONING

Resource estimation and studies

- Due diligence and consulting
- Economic geology and resource estimations
- Geoscientific and geotechnical studies
- Metallurgical testing and optimization
- Process flowsheet development
- Technical and economic assessments (PEA, PFS, FS)
- Energy studies – electrical and thermal
- Life-of-mine planning
- Technical reports in accordance with NI 43-101 or JORC
- Environmental studies, social licensing and permitting (EIA)

Project design and management

- Mining plans development (underground and open-pit)
- Material handling and transport systems
- Plant and process layout
- Water and waste management
- Geotechnical services and infrastructure design
- Digitalization, automation and telecommunications
- Power generation (off-grid) and distribution
- Constructibility management
- Procurement, project and construction management

Operational readiness and commissioning

- Operational readiness and preparation
- Pre-operational verification (POV)
- Risk assessment and mitigation
- Development of procedures and safety plans
- Preparation of manuals and documentation
- Training for operations and maintenance personnel
- Plant commissioning and operation
- Site restart

Optimization and site support

- Audits (diagnostics, process optimization and energy efficiency)
- Plant expansions
- Tailings dam assessment
- Emergency measures and intervention plans
- Asset management
- Laboratory testing services
- Blast modelling and fragmentation studies
- Rock mechanics
- Acoustics, noise and vibration consulting
- Mine closure and remediation plans



Resource estimation and studies

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The mining sector is facing a major challenge. On the one hand, the demand for metals is unabated, and on the other, deposits are more remote and grades are in decline. To ensure the viability of your projects, decisions must be based on reliable technical, economic and environmental feasibility assessments. Every detail counts.



Rigorous analyses for better investments

Our goal is to provide you with reliable and relevant data that will enable you to make the best choices and present a solid business plan to your investors.

Our experts include seasoned geologists as well as mine design and mineral processing engineers who are supported by a broad range of specialists who base their recommendations on a fully-integrated analysis backed by years of practical experience.

Partners in strategic development

BBA's team of experts is available to help you develop your vision from the ground up. Our integrated approach boosts the short- and long-term value of your mine, while mitigating risks. It enables you to optimize production and processing plans, capital allocation and mining infrastructures so returns are maximized over the life of your mine.

Our expert services help guide your decisions using indepth feasibility studies, financial analyses and technical reports.

Our services include:

- Expert advisory services to corporate executives
- Audits and due diligence
- Estimation and classification of mineral resources
- Assessment of mining properties and assets
- Integrated studies (e.g., PEA, PFS, FS and EIAs)
- Independent technical reports (NI 43-101, JORC)
- Power system studies
- Energy strategy assessment
- Permit applications and support with public consultations

50+

Ni 43-101 / JORC technical reports delivered to date

Planning every stage of your mine's life

Because your mine can operate over several decades, effective mine planning is an essential cornerstone for creating value.

Having undertaken numerous studies for a range of commodities and deposit types, we are well-positioned to integrate strategic mine planning throughout your project life-cycle to help you meet stakeholder expectations.

- Economic resource modelling
- Declaration of mineable reserves estimates
- Phased development plans to depletion
- Design of waste dumps, stockpiles, access roads and roadways
- Equipment selection and workforce requirements
- Cost estimation and reporting

Getting the stamp of approval

Successfully fulfilling regulatory and social obligations without eating away at your profit margins is a challenge, and we want to help you reach this goal.

We have supported clients on numerous mandates that required the sensitive management of resources and relationships with stakeholders.

We have solid experience working with Indigenous communities and a thorough knowledge of government processes, legislation and permitting.

BBA's team of experts is available to help you develop your vision from the ground up.



Engineering design and project management

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The mining industry landscape is evolving rapidly. New technologies are constantly being introduced, environmental standards are more stringent than ever, worker safety continues to be a critical issue and societal concerns about mining continue to grow. To guarantee long-term project profitability, you must stay alert and adopt best practices at every stage of your project.



Your mine must be profitable

BBA's expertise in mining, mineral processing and tailings management is supported by a multi-disciplinary engineering design team that has the experience to transform preliminary sketches into reliable, working designs. Engineers, biologists and environmental service consultants work closely with an eye to sustainable development.

- Open-pit and underground mines
- Mineral processing plants (conventional and modular)
- Materials handling systems
- Mine ventilation systems and atmospheric emissions controls
- Mine garage, camps and other general infrastructures
- Roads, rail and port infrastructures
- Waste and tailings management facilities, including dry stacking and wastewater treatment
- Dams and drainage structures
- High-voltage power transmission and distribution
- Critical power supply systems, including diesel generators, natural gas, biofuels, renewable energy
- Industrial IT, telecommunications and cybersecurity
- Automation and advanced control systems
- Worker safety, emergency response and fire protection
- Environmental planning and permitting
- Social acceptance (nearby communities and Indigenous lands)

Safe and socially-acceptable development

We can support you in implementing solutions that meet your legal obligations, ensure the safety of your industrial operations and control costs. We offer reliable environmental expertise to properly plan your project and speed up its completion, including field studies, comprehensive impact assessments and support during the permitting process.

+25% of project hours
invested in the field

Several of the largest
concentrators in Canada were
designed by BBA teams over
the past 10 years.

Exemplary project management— nothing less

To reach your increasingly ambitious targets, great care is taken to ensure that budgets, schedules and overall performance are respected.

Recognized for our agility and in-depth knowledge of industry issues, we take the scope of your project into account as well as associated risks and opportunities. Limited resources are used responsibly.

- Project audits (third party)
- Procurement
- Detailed engineering and scheduling
- Planning and optimization of the workforce curve
- Dashboard creation and customized monthly reports
- Monte Carlo simulation
- Platform implementation and document control system
- Constructibility review and visual sequence analysis
- Use of powerful tools: Primavera P6, Prism G2 Suite, etc.
- Application of best practices (AACEI, PMI, etc.)

Flexible execution

You have the choice. You can benefit from turnkey management or use our services for specific project stages. Our team stands out through its ability to adapt, depending on the nature and complexity of mandates. Our close communication with all project partners makes us allies you can count on.

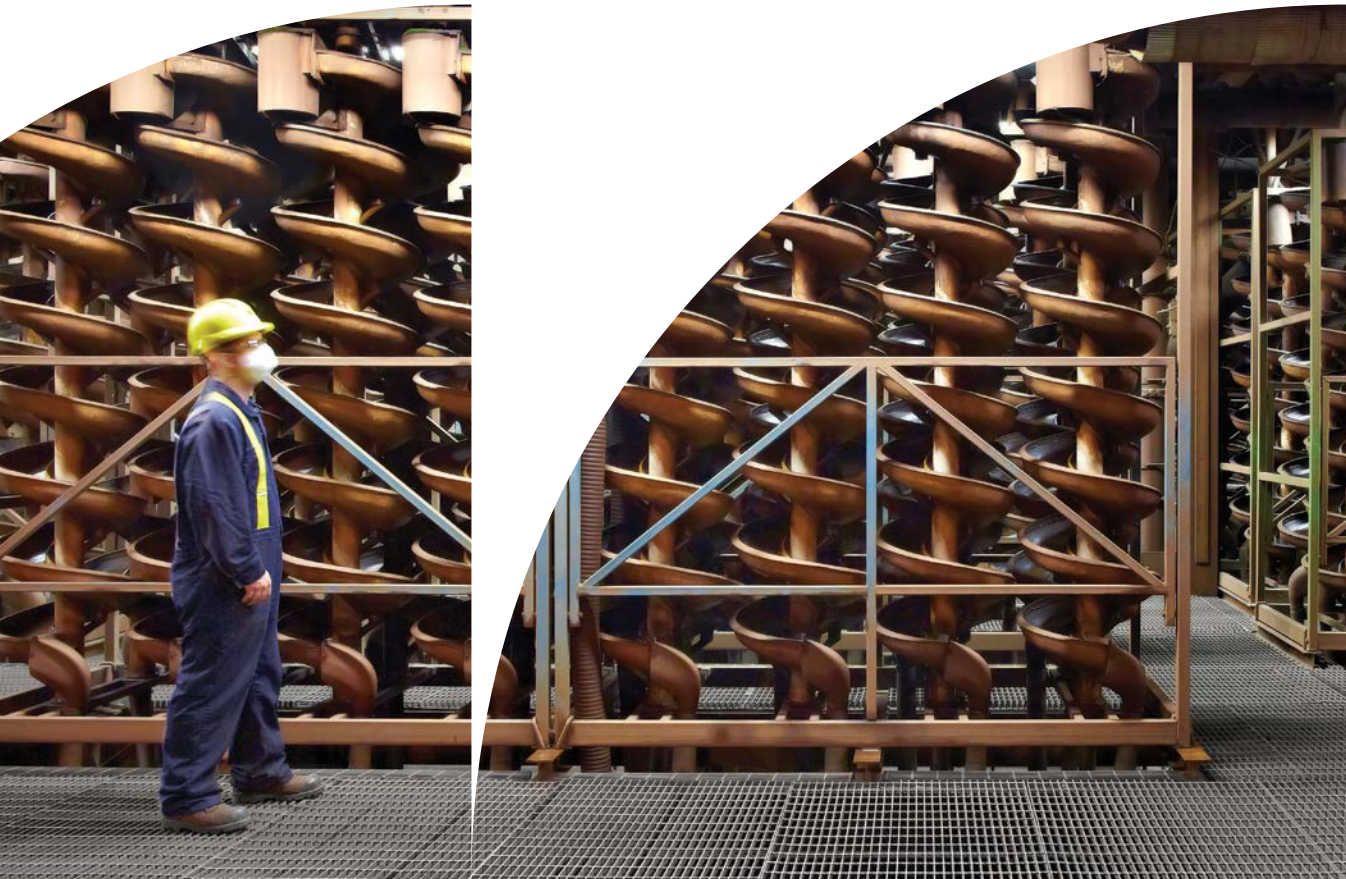
- Integrated project team
- Owner's representative
- Execution options and varied contractual approaches, including EPCM



Operational readiness and commissioning

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We aim for flawless operations—period. Our structured approach to operational readiness and commissioning facilitates successful initial start-ups, ensures sustained production increases and maintains optimal facility performance. We address this as soon as project execution begins so you can reach planned performance much sooner.



Good preparation: the key to a successful start-up

Given the significant amount of time, effort and money you invest in the design and construction of your operations, it is imperative for you to reach full production in the shortest delay, while respecting your budget.

Whether it is for new construction, improvements, remediation or site restart, your challenge remains the same: preserve assets and optimize overall productivity, while ensuring health and safety.

BBA recommends a seven-step operational readiness and commissioning plan:

1. Determine operational readiness activities
2. Monitor operational readiness activities
3. Achieve operational readiness
4. Prepare pre-operational verifications (POVs) and commissioning
5. Perform POVs
6. Perform commissioning
7. Optimize operation and production (ramp-up)

In control of your operations

Many operational readiness mandates we have completed have been rewarding challenges in their own right. Once your systems are up and running, we will provide the means for you to remain vigilant and resolve deficiencies as quickly as possible without compromising your operations. Ultimately, we will help you achieve and secure greater return on investment.

OUR SERVICES INCLUDE:

- Operational readiness and commissioning plans
- Risk management and mitigation plans
- Testing and commissioning
- Energization and startup
- Development of preventive maintenance plans
- Emergency response and repair
- Brownfield upgrade
- Operational and maintenance staff training

Safety above all else

Every day, our engineers, technologists and electricians work in remote, hard-to-reach sites to perform a variety of tasks: testing, commissioning, maintenance and emergency support activities. Worker health and safety are extremely important to us and guide us in our day-to-day decisions and actions.

When every minute counts

Unforeseen situations caused by equipment failure, longer than expected repair times or even operator error can force an unintended plant shutdown.

When every minute counts, it is essential to team up with the right business partner. That is why our teams are committed to doing everything possible to support you and make your project a success. We are there with you, in the field.

100+ construction start-up mandates completed to date

Health and safety are extremely important to us and guide us in our day-to-day decisions and actions.



Site optimization and support

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There are many opportunities for optimization and the decisions you make today will affect the future of your business. Thanks to our field experience and extensive knowledge of the technology available on the market, we are able to help you make the right investments at the right time, where it matters.



An integrated approach that gives you more

As market demands become increasingly challenging, all operational aspects should be reviewed on a regular basis. Our multidisciplinary approach promotes an integrated understanding of your project, while maintaining a clear vision of all factors that influence your profitability.

Our optimization experts specialize in the following areas:

- Reduction of environmental impacts from blasting
- Blast design to maximize fragmentation
- Waste and tailings management
- Acoustics, noise and vibration
- Mine ventilation
- Off-grid power generation, renewable energy
- Data centre infrastructure, digitalization and cybersecurity
- Environmental impact reduction
- Laboratory testing
- Emergency measures and intervention

The mine-to-mill value proposition

BBA combines its expertise in blasting with comminution circuit design in a manner that can produce telling improvements in mill performance. We have implemented this approach to existing operations, but also in the design of new facilities. This ability to optimize energy utilization through the entire value chain of blasting, crushing and milling, can translate into either higher throughput using the same equipment or more flexibility when selecting equipment.

One of the only firms providing drilling and blasting support for open-pit and underground mines

SPECIALIZED LABORATORY SERVICES:

- Gold leaching optimization
- Concentrate self-heating (MASH)
- Silver leaching (CELP)

Strategically manage your assets

You want to extend the life of your assets, but not at the expense of equipment reliability or worker safety. It is sometimes appropriate to modernize assets because of the increased risk of failure, productivity gains, regulatory requirements or an aging workforce.

We can support you with the following steps:

- Assess asset condition and performance
- Analyze the risk-consequence ratio
- Set priorities
- Provide for short-, medium- and long-term network planning
- Manage asset investments (capital planning, and operating and maintenance budgets)
- Optimize resources and constraints (finances, human resources, procurement)
- Provide strategic procurement and sourcing
- Provide compliance management

Optimize your recoveries

At our laboratory, we offer highly-instrumented, specialized testing to the precious metals industry, facilitating a level of control that would otherwise be impossible to achieve. We have helped several clients boost their gold and silver recoveries and achieve reagent cost savings.

We also offer testing to measure the potential for sulphide concentrates to self-heat. When exposed to air and water, some concentrates can self-heat, presenting a potentially serious fire hazard and SO₂ emissions. Testing of concentrates can lead to assurances and/or recommendations for mitigating measures.



Bloom Lake iron mine restart

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CLIENT **IRON ORE QUÉBEC**
LOCATION **13 KM NORTH OF FERMONT, QUÉBEC**

The Bloom Lake project is the first major iron ore project in eastern Canada since the 1970s. In 2018, Iron Ore Québec restarted the iron mine, located about 13 km north of Fermont, Québec. The mining company wanted to maximize profitability, so it upgraded its concentration plant and recovery circuit and commissioned the 3.5 km conveyor to reduce truck hauling.

Our experts' solutions

BBA was involved from the outset of the restart project. The team was tasked with performing project control and procurement management as well as the detailed engineering to optimize the plant process. The team was also involved in operational readiness preparations by drafting commissioning methods and procedures.

This project presented many challenges because of its scope, tight deadlines and the many consultants involved, which made planning work and managing costs more complex.

- Designed and identified engineering solutions with a consistent focus on compatibility with existing facilities
- Administered construction contracts
- Quickly carried out project procurement
- Optimized the tailings pumping system at low cost for significant savings on CAPEX investments for the restart

411.7 million tonnes are estimated for the project's mineral reserves
7.4 million tonnes of concentrate are produced on average every year

- Replaced an ore chute that was over 30 m in height
- Optimized the concentrator process to correct shortcomings the client knew about through previous experience at the plant
- Designed a commissioning execution plan based on an innovative graphic approach, making the client 100% autonomous
- Implemented a commissioning tool that provided the client with consistent system language among its workers
- Ramped up concentrator production sooner than forecasted in the feasibility study

“Thanks to BBA’s detailed block diagrams and procedures, our team found it easy to handle commissioning activities entirely on our own.”

Alexandre Belleau — Iron Ore Québec



Detour Lake gold mine project in EPCM mode

CLIENT **DETOUR GOLD CORPORATION**
LOCATION **DETOUR LAKE, ONTARIO**

In 2007, Detour Gold Corporation acquired the Detour Lake property, where previously there had been an underground/open-pit mine, which closed in 1999. The mining company faced numerous challenges caused by the low-grade deposit as well as the presence of a large muskeg and vulnerable wetlands in the area. Over 10 years later, Detour Lake has become one of Canada's largest gold mines with capital reaching \$1.5 billion. Since the first gold bar was poured in February 2013, the open-pit mine has produced an average of 656,000 ounces of gold per year.

Our experts' solutions

After a series of promising drilling campaigns and successful pre-feasibility and feasibility studies by BBA team members, once again, Detour Gold turned to BBA experts to develop ore processing facilities. The team was tasked with the detailed engineering of the new low-grade, high-tonnage processing plant as well as with purchasing equipment and providing technical support for the construction project of this impressive open-pit gold mine.

Founded on several innovations and evidence-based environmental solutions, BBA's concept greatly exceeded client expectations in terms of mining. In addition to the technical aspects, BBA stood apart through exemplary



“BBA’s design exceeded the client’s operating expectations and implemented industry-leading innovations and effective environmental solutions.”

ACEC — Canada

project execution, from estimating and producing exhaustive monthly reports to project control.

- Ore processing plant capacity of over 55,000 tonnes per day
- Approximately 230,000 L of recycled waste oil is used each year to heat the buildings
- Nominal flow of recovery water of about 2,000 m³/h based on the process diagram
- Installation of a 180 km long 230 kV hydroelectric transmission line in seven months
- Annual energy recovery estimated at about 15,000,000 kWh
- Leaching process using 20 tanks measuring 19 m in diameter and 20 m in height



Social licensing and Indigenous relations

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PROUD MEMBER OF



BBA supports interest groups and stakeholders of the projects in which it is involved, bearing in mind their long-term impacts on communities, the environment, employees and business partners. This vision is based on principles of sustainability, trust and fairness and guides each of our actions.



1

Recognizing Indigenous rights and our social responsibility

BBA believes it is essential to develop close and meaningful relationships with Indigenous peoples. We welcome their input and the knowledge they bring when we carry out projects on their ancestral lands and territories.

- BBA's Indigenous Peoples Policy based on the reconciliation process and respect for their rights and traditions
- Commitment to and support for the United Nations Declaration on the Rights of Indigenous Peoples
- Participation in the operations of Indigenous economic development organizations, such as the Canadian Council for Aboriginal Business (CCAB)

2

Investing in project development with Indigenous peoples

Before a project is even considered, BBA works to establish engagement activities with communities. We aim to understand Indigenous values as they relate to their relationship with the land and its resources and work inclusively while providing support.

- BBA's support and initial investments to start partnership projects—some examples of investments made:
 - Malahat Nation, Vancouver
 - Métis Nation of Alberta
- Ongoing involvement of Indigenous leaders in the decision-making process
- Clear understanding of community impacts and benefits

3

Establishing lasting and authentic partnerships and agreements

Our vision of partnership is based on the principle of mutual benefit. By striving to develop economic opportunities and positive benefits in the region where the project is carried out, BBA establishes strong and transparent relationships between local and Indigenous communities and developers. Here are some examples:

- Partnership with the Innu – Eastern Canada
- Cree partnership – Northern Ontario
- Métis Nation of Alberta relationship agreement – Western Canada

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Giving back to local communities and social involvement

BBA contributes to the well-being of the communities where it operates through various initiatives:

- Granting scholarships and sponsorships—a portion of which is reserved for social agencies and educational institutions in Indigenous communities
- Supporting programs that promote health, poverty and social exclusion abatement and environmental enhancement
- Participating in Indigenous awareness days and events

5

Support with permitting and approval processes

Our team helps industrial companies navigate the steps of obtaining approvals and permits. We implement and coordinate social licensing action plans by understanding local community concerns and integrating them into project planning to benefit all stakeholders. Our goal is to carry out socially acceptable and economically viable projects while simultaneously mitigating environmental impacts.


- Permit and approval applications coordination
- Environmental impact assessment
- Public hearings and consultations

6

Valuing communities and acting as an ambassador

BBA is raising awareness about local benefits and wellbeing, inclusion and equity by helping its employees and clients understand how their projects influence cultural, environmental and socio-economic values of the communities involved.

- Ensuring equal access to business opportunities for qualified local professionals
- Identifying training opportunities involving community members
- Valuing the culture, principles and values of host communities
- Participating in social projects and creating local economic benefits
- Understanding and respecting traditions, history and cultural diversity



Our projects are designed
to integrate environmental
principles from the start.



Our vision for the future of mining.

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Toward sustainable mining

Economic growth and environmental protection are no longer mutually exclusive. More and more, society is recognizing that the need for raw materials must be balanced against the need to preserve the environment for future generations. Strategically managing a mine's closure from the very start will deliver positive benefits to the project's overall financial performance.

"Our ultimate goal is to create technology and work methods that have only positive impacts on people's lives with minimal impact to the environment. In the future, we aim to build mining operations that will integrate harmoniously with communities and produce zero emissions."

Lou Bruno, Executive Director,
Strategic Development

Responsible energy, air and water management

Our teams in industrial water treatment, hydrology and hydraulics have developed methods that meet the highest industry standards. Operational safety, careful selection of technologies and environmental protection guide all our actions, which makes our clients' work much easier and reduces operating costs.

- Integrated water management plans
- Seasonal water balance
- Water quality analyses
- Treatment of mine effluents, waste and tailings
- Air emission reduction programs
- Renewable energy integration

When mining and nature coexist

We believe that mining can coexist with nature and surrounding communities. That is why we invest a lot of effort in innovation to limit the operational footprint, from mine opening to reclamation. Our integrated approach in earth, infrastructure and the environment focuses on getting the most out of our technical and operational expertise to find effective solutions that respect the mining project's environmental surroundings.

- Studies and strategic advice
- Biophysical, aquatic, terrestrial, hydraulic and hydrogeological studies
- Geomatics and mapping
- Environmental and social impact assessments
- Compensation and mitigation plans
- Infrastructure closure, remediation and rehabilitation plans
- Acoustic and olfactometry studies
- Environmental monitoring and follow-up

