APPENDIX 3-C KSM PROJECT POSTERS (2010-2012)





BC Mining Overview

The mining industry has played an important role in the economic development of British Columbia. Currently, the industry directly employs over 7,500 people, and is the largest employer of Aboriginal peoples in Canada. The BC mining industry is a significant financial driver contributing billions of dollars to the federal and provincial gross domestic product (GDP) annually.

British Columbia's mining industry utilizes both the open pit method (mining ore found at the surface, generally with large trucks and excavators or power shovels) and underground method (mining ore located beneath the surface using tunnels). Gold-copper mines, like the KSM Project, are usually open pit operations that use advanced technology and large equipment to profitably mine low grade ore with minimal environmental effects.





Mining is thoroughly regulated at both the provincial and federal levels. The mining industry in BC has established environmental protection as a priority objective in the development, operation and closure of mines. There are several stages in the life of a mine:

- Exploration: Low impact field work is conducted to locate and evaluate the economic potential of mineral resources.
- Environmental Monitoring: Comprehensive environmental and social studies are conducted prior to mine development and monitoring continues throughout the lifetime of the project.
- Assessment and Permitting: Mining projects must obtain an Environmental Assessment Certificate from the government and multiple permits prior to project development.
- **Construction:** Before mining commences the site is prepared by removing the rock and soil overlying the ore, and building access roads and infrastructure.
- **Operation:** Ore and metals are extracted and processed while non-ore bearing rock and by-products are carefully stored.

Closure and Reclamation: The mine site is stabilized and environmental restoration is conducted.

Zinc 10%

BC Minerals

BC Minerals Mined in 2009



British Columbia's mineral production includes copper, coal, zinc, molybdenum, gold, silver, lead and aluminum along with aggregates (sand and gravel). Coal, copper and molybdenum are BC's first, second and third most valuable mineral products.

> BC's mining industry contributes directly to the GDP. In 2009, it contributed \$7 billion with net sales of metals and minerals (before expenses) of \$5.7 billion. Coal and copper provide over 68% of the financial benefits.

Thermal Coal 5% BC's Net Revenues of Mining in 2009

Gold

Gold is a precious metal and a very valuable commodity. It is easy to work with, and is a strong conductor of electricity. It is most known for its use in jewelry, coins, ornamentation, electronics, and heat reflective plating. Gold has been discovered on every continent.



Copper



Copper is a base metal and an excellent conductor of both electricity and heat. It is the third most used metal after aluminum and steel. It is known for its use in electrical wires, coins, medical equipment, medicine, pipes, and alloys (brass, bronze, pewter). Presently, 15% of copper use is from recycled materials.





KSM Project Overview



Project Overview

The KSM Project is a proposal to build a gold, copper, silver and molybdenum mine in northwest BC. The project is located about 65 km northwest of Stewart, 20 km northwest of the now-closed Eskay Creek mine and 30 km northeast of the Alaska border. The project will employ an average of approximately 1,800 people during its five year construction and will create an average of approximately 1,040 permanent jobs during its 52 year mine operations.

Placer gold was discovered in the proposed KSM Project area in the late 1800s.



Project Details

- KSM Project comprises four large gold and copper deposits. Together, these deposits contain proven and probable
 reserves of 38.2 million ounces of gold, 9.9 billion pounds of copper, 191 million ounces of silver and 213 million
 pounds of molybdenum.
- The Kerr, Sulphurets and Mitchell deposits will be mined as open pits using earth-moving equipment. Mitchell will be mined as an underground operation later in the mine life. Iron Cap will only be mined as an underground operation. Project components include ore and non-ore rock handling, mineral processing, tailing and non-ore rock disposal, road access, a transmission line, concentrate shipping, accommodation, administration and maintenance complexes.
- The mine will produce up to 130,000 tonnes of ore per day.
- Trucks will take the gold/copper concentrate to Stewart for transport by ship to market.
- The proposed mine has a 52 year life. This longevity creates multi-generation job opportunities.
- The project's capital cost is estimated at \$5.2 billion.
- During operation, the project will generate significant tax revenues and royalties.

Timeline









Human Environment Studies

Seabridge is conducting studies to understand the current human environment near the proposed KSM Project. This will help to assess potential project effects on regional residents.

Socio-Economics

Socio-economic studies have identified the social, economic, heritage, and health components of regional and local communities that could potentially be affected by the proposed project.

Archaeology

Multiple archaeological sites were found in the proposed KSM Project area. These sites are now protected.



Traditional Knowledge

Local Aboriginals' traditional knowledge (TK) provides valuable information important to a comprehensive environmental assessment process.

The KSM Project Team recognizes the sensitive nature of TK and seeks to work collaboratively with Aboriginal knowledge holders in a mutually beneficial manner.

Country Foods

This study evaluates the quality of foods potentially harvested in the proposed project area.







Land and Resource Use

Land and resource use studies identify land users and owners and their activities in the proposed KSM Project area and surroundings. Proposed NSM Project area and suffoundings. Potential project effects on existing land use are determined, and appropriate mitigations are developed. Potential land users and owners include:











Environmental Management

Seabridge recognizes that mining affects the environment. We will work with the provincial and federal governments, Aboriginal peoples, and local communities to minimize potentially adverse project effects, discuss options, and plan for successful mine closure and reclamation.

Project Design

Design provisions to protect the environment include:

- Tailing Management Facility located in an area with easily managed
 - surface water flows. • Water management plan for the proposed mining area to minimize effects on natural watercourses and treat affected water.
 - Diversion tunnels to direct clean water around areas disturbed by mining.
 - Hydro-electric generation of green energy in diversions and process streams.

 - Use of energy efficient equipment will reduce energy consumption and greenhouse gas emissions.
 - Conveyor to transport ore through a tunnel from the mine site to the processing plant.
 - Use of existing access roads as much as possible to minimize additional road construction.
 - Use of access roads limited to authorized personnel, along with restrictions on employee hunting and fishing, to prevent harvesting pressure on fish and wildlife.

Project Operation

discondisting.

Operating policies will include:

• Use of best environmental practices.

The KSM Project has been designed, and will be developed and operated, using the highest practicable standards of environmental management.

- Spill avoidance and spill control plans.
 - Emergency response plans.
 - Reduce, re-use, recycle initiatives to minimize waste.
- Ongoing energy efficiency initiatives.
- Adaptive management towards continual improvement.
- Ongoing community engagement.

Project Closure

- Reclamation and monitoring:
 - Financial security will be provided to ensure:
 - appropriate restoration of the site when mining ceases.
 - ongoing water treatment and monitoring.
- An approved fish habitat compensation plan to replace affected fish habitat.

The Nass River, located downstream of the project, is a valuable commercial salmon fisheries. Protecting this resource is essential for developing a sustainable project.











July 2009: CEA Agency determines KSM Project must undergo a comprehensive study EA review under the CEAA.

November 2009: EAO issues Section 11 Order defining the EA process, including which groups require consultation.

December 2009 - ongoing: Seabridge continues environmental and social baseline studies in development of the project design.

June 2010: CEA Agency releases a Draft Comprehensive Study Scope of Assessment document for public review.

June - July 2010: Public Open Houses in Northwest BC to share project information and invite public comments on the draft Application Information Requirements.

June 25 - July 26, 2010: EAO administers a public comment period for the project.

January 2011: EAO issues the final Application Information Requirements outlining the detailed requirements of the environmental assessment.

Fall 2011 - Fall 2012: Seabridge and EAO hold meetings to refine the project design based on feedback from regulators and Aboriginal governments.

Fall 2012: Submission of EA Certificate Application and concurrent permit applications.

Fall 2012 - Spring 2013: Screening, 180-day review phase, including public comment period, following EA Application submission. Seabridge will respond to all comments received and will submit the responses to EAO.

 Fall 2012 - Spring 2013: Seabridge continues its consultation program throughout the review period.

Spring 2013: Provincial and federal governments prepare assessment reports summarizing the issues brought up and resolved during the review, and draft permits are prepared.

Project Decisions

Application Review

Definition of Project Scope Issues and Assessment

Spring - Summer 2013: Provincial ministers determine whether to issue an EA Certificate within 45 days of receiving recommendations from EAO.

Spring - Summer 2013: Federal Minister of Environment determines whether the proposed project will create a significant environmental effect, enabling issuance of federal permits.

Permits, granted by provincial and federal regulatory bodies, are needed throughout the life of the project. The permits grant the project approval to carry out specified activities. Once regulatory approvals are granted, it is expected to take an additional five years of construction and start-up before the mine is operational.





Seabridge Gold Inc.

Seabridge Gold Inc. (Seabridge) is a mineral exploration company focused on gold deposits in North America. We acquire projects with gold resources, and work to expand and confirm these resources. We then sell the project, or enter into a joint venture agreement with a larger company, to build the mine and bring it into operation.

Experienced Professionals



Experienced professionals in the mining and exploration sector lead Seabridge's management team. Together, the team has more than 225 years of work experience.

Chairman and Chief Executive Officer – Rudi P. Fronk

- Director, President and Chief Operating Officer Jay S. Layman
 - Senior Vice President William E. Threlkeld
- Vice President, Finance and Chief Financial Officer Christopher J. Reynolds
- Vice President, Environmental Affairs R. Brent Murphy
- Vice President, Corporate Affairs and Corporate Secretary C. Bruce Scott
- Senior Geologist Mike Savell
- Technical Services Manager Jim Smolik
- Manager, Environmental Affairs Elizabeth Miller



KSM Project Team

The KSM Project team includes technical experts from the following companies:

Allnorth Consultants Ltd.



www.ausenco.com
BGC Engineering



Bosche Ventures Ltd.



Golder

() Klohn Crippen Berge

EBA Engineering Consultants Ltd., a Tetra Tech Company www.eba.ca



Klohn Crippen Berger Ltd. www.klohn.com

McElhanney and Associates www.mcelhanney.com



Mine Ventilation Services Inc. www.mvsengineering.com

www.moosemmc.com

Moose Mountain Technical Services

Moose Mountain Technical Services



Rescan Environmental Services Ltd. www.rescan.com

rce Modeling Inc. Resource Modeling Inc.

SGS-CEMI www.sgs.com

WARDROP



Thyssen Mining www.thyssenmining.com

Wardrop, a Tetra Tech Company www.wardrop.com

WN Brazier Associates Inc.





Estimated Economic Benefits from the KSM Project (August 2012)

The proposed KSM mine is anticipated to have a 52-year life and will create multi-generational employment in the region.

Estimates during Construction:

- An average of approximately 1,800 jobs (full-time equivalent, FTE) on site over 5 years (1,800 per year X 5 years).
 - Additional supplier jobs in BC for an average of 2,510 (FTE) because of construction, and 4,770 in Canada (including BC).
 - Additional induced jobs (from workers spending their incomes) of an average of 4,410 FTE across Canada, with approximately 2,220 of those in BC.
- Direct project spending of approximately \$3.5B into the provincial economy for goods and services.
- Total GDP generated in BC by the project (direct, indirect, and induced) of approximately \$3.4B, and \$6.0B for all of Canada.
- Total tax revenue (federal and provincial) of approximately \$592M from economic activity in BC and \$1.08B for all of Canada.

Source: DYNATEC model based on Statistics Canada's Input-Output Model of the economies of Canada and the provinces using Seabridge estimates of direct project employment and expenditures.







Estimates during Operation:





Iron Cap: Copper "staining" due to weathering of gold-copper mineralization.

RAAS No. Star Mitchell: Copper oxide precipitating in puddle.

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Mitchell: Mineralized vein stockwork





Working in the Nass Area

At Seabridge Gold, being welcome in the communities where we operate is essential to our business. We have made significant progress in advancing our KSM project toward production and, if approved, it is our belief the project will become an economic anchor for Northwestern British Columbia and its residents for many years to come.



The KSM Project is located in the upper reaches of the Nass Watershed and so our relationship with the Nisga'a Nation is very important. The tenets of the Nisga'a Final Agreement apply and we are committed to:

- Respecting Nisga'a Treaty Rights.
- Building relationships and developing community understanding about the project.
- Developing employment and other economic opportunities to benefit the Nisga'a Nation over generations.
- Protecting the environment and minimizing our footprint.



Engaged communities bring their interests, expertise, skills and knowledge to any discussion, enabling Seabridge Gold to develop responsible projects benefiting everyone. We welcome your input. *community@seabridgegold.net*









Water Management

Water Management from the Mine Site

Seabridge Gold's proposed KSM Project is located in the Sulphurets Creek drainage basin (a tributary of the Unuk River) in British Columbia, Canada. The proposed mine site is located approximately 30 km (19 mi) east of where the Unuk River crosses the Canada/US border into Alaska. As a result of natural rock conditions, water in the area shows elevated levels of metals, including iron and copper, and suspended solids.

As part of its environmental assessment work to date, Seabridge has completed a comprehensive environmental baseline study of the natural environment, including fisheries, wildlife, aquatics, and surface water and groundwater quantity and quality. Using these and other data, the KSM Project has been engineered and designed, and will be developed and operated, to the highest standards of environmental management; mitigation and monitoring plans are an integral part of construction, operation and closure of the project.

The water management plan for the proposed KSM Project includes:

- A commitment to minimizing effects on natural watercourses;
- A commitment to treating mine contact water;
- A system of ditches and diversion tunnels around the mine site to direct non-contact water around areas disturbed by mining;
- A water storage dam designed to store mine contact water prior to treatment and release;
- Meeting water quality discharge criteria, as determined by the Province of British Columbia and the Government of Canada; and
- A long-term commitment to project reclamation after mine closure, which includes ongoing water treatment and monitoring.

Water Storage Dam

The KSM Project design includes a robust water storage dam located downstream of the major mining areas. The dam has been designed to withstand earthquakes, flooding and avalanches and allows seasonal storage and treatment of mine waters. The design of the dam minimizes seepage and meets standards established by the Canadian Dam Association and the International Commission on Large Dams (ICOLD).



Water Management from the Tailing Management Facility

The KSM Project's processing plant and tailing management facility (TMF) will be located in the upper tributaries of Teigen and Treaty creeks, which flow into a Nass River tributary, the Bell-Irving River. The TMF site has limited fisheries values and excellent topography to maximize efficient water management.

Seepage collection ponds are an integral part of the overall water management plan for the TMF. The proposed seepage collection ponds are situated downstream of the constructed dams and will collect subsurface seepage contact water from the TMF, which will then be recycled back into the facility. At closure, contact water will be returned, over time, to a quality that can be discharged directly into the environment.





Working with our US Neighbours

At Seabridge Gold, being welcome in the communities where we operate is essential to our business, irrespective of borders. Community engagement, safety and wellbeing of people, stewardship of natural surroundings, and respect for its neighbours are cornerstones of Seabridge Gold's community relationships.

How is Alaska involved?

The KSM Project is located approximately 30 km (19 mi) east of where the Unuk River crosses the border between British Columbia and Alaska, and 160 km (100 mi) northeast of the city of Ketchikan. Both the State of Alaska and US federal agencies are aware of the KSM Project and are actively engaged in its environmental review as members of the project's working group which was formed by Canada's Federal and Provincial governments to assess the potential environmental impacts of the KSM Project.





Engaged communities bring their interests, expertise, skills and knowledge to any discussion, enabling Seabridge Gold to develop responsible projects benefiting everyone. We welcome your input. *community@seabridgegold.net*







Essential Elements in our Daily Lives

Many things we rely on daily – at work, home and play – contain gold, copper, silver and molybdenum. These minerals are found at the proposed KSM Project.

Gold

- 60% of the gold mined today becomes jewellery (wedding rings, watches, necklaces). Other applications and products include dentistry, medical equipment and electronics, including computers, tablets and cell phones.
- Gold is used for energy conservation, as a window coating in new buildings.
- 100 million people worldwide depend on gold mining for their livelihood.
- Gold is very pliable: one ounce of pure gold can be hammered into a single sheet, 9 square metres.

Silver

- Silver is used in many different things, including batteries, catalytic converters, electronics and circuit boards, and for water treatment. More than 95% of annual consumption is in industrial and decorative applications, photography and silverware.
- Cloth containing silver is more resistant to the effects of mildew and bacteria. It's used in sports clothing to kill bacteria and keep clothes odor free.
- Silver is the best heat conductor of all elements. That's why it's used in solar panels and automobile rear window defoggers.



Molybdenum

- As a pure metal, molybdenum or moly is used as filament supports in light bulbs, metalworking dies, and furnace parts because of its high melting temperature.
- The two largest uses of moly are as an alloy in stainless steels and in alloy steels. These are used in food handling, hospital and laboratory equipment, automotive parts, construction equipment and gas transmission pipes. You can even find moly in golf clubs!
- Iron, steel and superalloy producers account for about 81% of the moly consumed in North America.

Copper

- Copper wiring and plumbing are essential to appliances, heating and cooling systems, and telecommunications links used every day in homes and businesses.
- Copper is an essential component in motors, wiring, radiators, connectors, brakes, and bearings used in cars and trucks.
- Almost half of the copper used in North America is for construction; 23% in electric and electronic products; and 12% in consumer products.

