

Executive Summary Water Management Program

The Back River Project (the Project) is a proposed 27-year gold project owned by Sabina Gold & Silver Corp. (Sabina) within the West Kitikmeot region of southwestern Nunavut. It is situated approximately 400 kilometres (km) southwest of Cambridge Bay, 95 km southeast of the southern end of Bathurst Inlet, and 525 km northeast of Yellowknife, Northwest Territories. The Project is located predominantly within the Queen Maud Gulf Watershed (Nunavut Water Regulations, Schedule 4) (base Figure 1).

The Project is comprised of two main areas with interconnecting winter ice roads (base Figure 2): the Goose Property (base Figure 3) and the Marine Laydown Area (MLA) (base Figure 4) situated along the western shore of southern Bathurst Inlet.

The mine plan proposes open pit and underground mining methods for the development of four gold deposits at the Goose Property. Based on currently known resources, 19.8 million tonnes of ore will be processed at a single, 6,000 tonnes per day process plant at the Goose Property over an operating life of 10 years. Continued exploration may extend projected mine life.

Sabina has developed monitoring and management programs required to mitigate, monitor, and report on its environmental performance against the regulatory requirements contained within its operating authorizations, permits, licenses, and leases consistent with the legal requirements of applicable Acts and Regulations in Nunavut.

Sabina's management programs include:

- Infrastructure and Access Management;
- Water Management;
- Waste Management;
- Emergency Response Management;
- General and Aquatic Effects Monitoring; and
- Interim Closure and Reclamation.

The **Water Management Program** includes:

- the Water Management Plan.

The **Water Management Plan** describes the plan for managing and monitoring water on the Project site. It begins with a description of the planning and implementation of the plan, including a description of the regional climate, hydrology, water supply locations and facilities, sewage treatment and disposal, and water management. Water management is outlined in general as well as by phase: Construction, Operations, Closure, and during any temporary Care and Maintenance times. This plan also describes the applicable legislation, guidelines, and personnel roles and responsibilities. The various environmental protection measures, monitoring programs, mitigation and management approaches, and corrective actions are also described. Finally, this plan summarizes environmental reporting, plan effectiveness, and the procedures for quality assurance and quality control.

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Atanguyani Atanguyaulluaktuk Makpiraangit Titikgakaikhimayunik Tuhaagakhanik Imaktiggut Munakgiyauyukhanik Ilihakyuminikmun Havaakhautikhanik

Tamna Hanningayok Havaakhautikhanik (tamna Havaakhautikhanik) imalu aah aullaktikgutikhanik uktutikhanik 27-ukiunik uyaagani manilingnik havaakhautikhanik nanminikgiyat piutigiyanklu tahapkunanga Sabina Uyaagani Manilingnik unalu Havilhallingniklu Katimayit. (Sabina) tahamani Uataani Kitikmeot nunatutuukak talvani hivukganivyak uataani Nunavut. Talvanituk unghahiktillanganik 400 unghahiktillanga (km) hivukganivyak uataani talvanga Ikaluktutiak, 95 km hivukganivyak kivaatani tahamanga hivukgangani nungumangani Kingauk, southeast uvunulu 525 km tununganivyak kivaatani tahapfumanga Yalunaif, Nunatsiami. Tamna Havaakhautikhanik nayuga atuklluaktauvaktuk talvani Queen Maud Gulf Kuugallialakivaktuk, Imaktikpaktunik, talvunga Kuugluakpaktut (Nunavut Imaktiggut Malikgakanik, Naunaitkutut 4) (Ildjuhiykiya 1).

Tamna Havaakhautikhanik attautimungaktikhimayunik talvuna malgungtikhugit tahamanilluak nunani paagutiuyukhanik ukiumi apkutikhanik (Ildjuhiykiya 2): tamna Goose Nanminikgiyat Piutigiyat (Ildjuhiykiya 3) unalu Taryumi Nayugakhainik Tutkuuktuivikhanik Tamayakhautikhanik Nunani (MLA) (Ildjuhiykiya 4) talvanituk uataani hinangani talvunga hivukganivyak Kingauk.

Tamna uyaagakhiukvik pangnattaunyuk aullaktikgutikhanik uyaagakhiuklutik uktutikhanik hugyailgumi nunaap kangani unalu uyaagakhiuklutik nunaap atangani uyaagakhiukvit atugakhanik tapfumuna aullaktikgutikhanik uvuna hitamanik uyaagani manilingni uyaagakvikhanik talvani Goose Nanminikgiyat Piutigiyat. Naunaitkutani tadjia ilihimayaunyuk atugakhaliuknikmun, 19.8 millian ukumailitanginik uyaaganik pilugit havaagiyaulutik ilikugguutillugit, 6,000 ukumailitanginik ublukgaikpat havaagiyaulutik havakviuluni talvani Goose Nanminikgiyat Piutigiyat avaatkullugu havakviulluni kulinik ukiunik. Aullakganginaktunik kinikhianikmun hunauyakhainik piniagungnakhiyut kinguvaktiyumiklugit havakviuyukhamik uyaagakhiukviuluni.

Sabina pihimayut aullaktiktivaktut munakgiyauyukhanik unalu munakhiyukhanik ilihakyuminikmun havaakhautikhanik pikariakaktunik talvuna kayakgiyukhanik, munakgiyukhanik, uvunulu uniklutiklu tapfumuna nunatiggut hivumukpalliyunik kangiutillugit kauhimayaunyuk piikariakaktunik piyunik havakviuyunik ataniktuttaunyuk, naunaitkutak atugakhanik nungudjutilingnik ubluinik atuknianut, atugakhanik naunaitkutak atugakhanik nungudjutilingnik ubluinik atuknianut, uvunulu naunaitkutak atukgufuukgumayuni atugakhanik nungudjutilingnik atuknianut atadjutinik tahapkunanga malikgalingnik pikariakaktunik aullaktikgutikhanik uktutikhanik Malikgak unalu Malikgakanik talvani Nunavut.

Sabina's munakhiyukhanik ilihakyuminikmun havaakhautikhanik ilagiyainik:

- Hannayauyukhanik Iglukpakhautikhanik unalu Piinaktukhanik Munakgiyauyukhanik;
- Imak Munakgiyauyukhanik;
- Ikakunik Munakgiyauyukhanik;
- Kilamiukgutillugu Kiuahainaktukhanik Munakgiyauyukhanik;
- Tamakpianganik unalu Umayunik Imakmiutanik Ihuikgutait Munakgiyauyukhanik; unalu
- Tahapkunani Uniktikgutait Hallumakhinikmun.

Tamna **Imaktiggut Munakgiyauyukhanik Plihakyuminikmun Havaakhautikhanik** ilagiyainik:

- tamna Imaktiggut Munakgiyauyukhanik Pangnattaunyuk.

Tamna **Imaktiggut Munakgiyauyukhanik Pangnattaunyuk** ilitukgiyauyukhanik tamna pangnattaunyuk munakgiyauyukhanik unalu munakgilutik imaktiggut talvani Havaakhautikhanik nunaini. Aullaktikpaktunik ilitukgiyauyukhanik tahapkununa pangnattauyukhanik unalu aullaktikgutikhanik talvuna pangnattaunyuk, ilagiyainik ilitukgiyauyukhanik tahapkunanga nunatutuukanik hilaanik, anikhaakpaktaptingnik kilak, imaktiggut atugakhanik nunani unalu havakvikhanik, kuug=vuikgavikhanik

imakluknik atukhimayunik hallumaktikvikhanik unalu igiitauyukhanik, imaktiggut munakgiyauyukhanik. Imaktiggut munakgiyauyukhanik naunniayakhimayunik tamakpianganik imalu ilidjuhikgiyakhanik: Hannayauyukhanik, Havakviuyukhanik, Umiktikgutikhanik, unalu talvuna pihimayauullaktillugit Munakgiyauullaktillugit unalu Munakgiyauyukhanik. Una pangnattauyunik ilitukgiyauyukhanik aullaktikgutikhanik uktutikhanik malikgaliukvingmi, malikgakhnik, unalu pirumiyauyunik kauhimayutukakgangginaktukhaniklu unalu munaktalingnik havaktit. Tamna nallinit nunaini pirumiyauyunik naunaitkutanik, munakgilutik ilihakyumihimaknikmun havaakhautikhanik, kayakgilutik unalu munakgiyauyukhanik updjutillugit, unalu tutikikhakhiklutik hulidjutinik ilitukgiyauyukhaniklu. Kingulikpak, una pangnattauyunik katitikhimayunik atugakhanik nunaini uniklutik, pangnattauyunik aullaktikgutikhanik, unalu pivalliyunik nakuyakhainik unalu itkumayakhainik unalu nakuyunik kanukgilidjutitailinikmun.

Résumé du Programme de gestion des eaux

Le projet de Back River (le Projet) est un projet aurifère sur 27 ans, proposé et développé par Sabina Gold & Silver Corp. (Sabina) dans la région de Kitikmeot Ouest au sud-ouest du Nunavut. Il est situé à près de 400 kilomètres (km) au sud-ouest de Cambridge Bay, à 95 km au sud-est de l'extrémité sud de Bathurst Inlet, et à 525 km au nord-est de Yellowknife dans les Territoires du Nord-Ouest. Le projet se situe principalement dans le bassin du golfe de Queen Maud (Règlement sur les eaux du Nunavut, Annexe 4) (Figure 1).

Le projet comprend deux régions principales avec des routes de glace reliées (Figure 2): Goose Property (Figure 3) et la zone de chantier maritime (ZCM) (Figure 4) situées le long de la rive ouest de la pointe sud de Bathurst Inlet.

Le plan minier suggère des méthodes d'exploitation minière à ciel ouvert et souterraine pour le développement de quatre gisements aurifères sur Goose Property. Selon les ressources connues à ce jour, 19,8 millions de tonnes de minerai seront traitées dans une seule usine de traitement dont la capacité quotidienne est de 6 000 tonnes. On prévoit que cette usine de traitement, située sur Goose Property, aura une durée de vie utile de 10 ans. La poursuite des activités d'exploration pourrait prolonger la durée de vie projetée de la mine.

Sabina a développé des programmes de surveillance et de gestion dans le but d'atténuer, de surveiller et de communiquer sa performance environnementale face aux exigences réglementaires prévues dans ses autorisations, permis, licences et baux d'exploitations, conformément aux exigences juridiques des lois et règlements applicables au Nunavut.

Parmi les programmes de gestion de Sabina, notons :

- Gestion des infrastructures et de l'accès;
- Gestion des eaux;
- Gestion des résidus;
- Gestion des interventions en cas d'urgence;
- Surveillance des répercussions d'ensemble et sur le milieu aquatique; et
- Fermeture provisoire et remise en état.

Le **Programme de gestion des eaux** comprend :

- Plan de gestion des eaux.

Le **Plan de gestion des eaux** décrit le plan de gestion et de surveillance des eaux sur le site du projet. Il débute par la description de la planification et de la mise en œuvre du plan, y compris une description du climat régional, de l'hydrologie, des emplacements et installations d'approvisionnement en eau, du traitement et de l'évacuation des eaux usées, de la gestion des eaux. La gestion des eaux est décrite de façon générale ainsi que par phase : construction, exploitation, fermeture, et durant les périodes d'entretien et de surveillance temporaires. Ce plan décrit également la législation applicable, les directives, et les rôles et responsabilités des membres du personnel. Y sont également décrites, les diverses mesures de protection, les programmes de surveillance, les approches d'atténuation et de gestion environnementales. En dernier lieu, ce plan résume les rapports en matière d'environnement, l'efficacité du plan, et les procédures d'assurance de la qualité et de contrôle de la qualité.