Goose Exploration

2020 Trenching Plan

Type B Water License

2BE-GOO2028

May 2020

Introduction

Sabina Gold & Silver Corp. (Sabina) is proposing an excavated trenching program during the 2020 summer field season at the Goose property.

In accordance with Sabina's Type B Water License (No. 2BE-GOO2028) issued in support of exploration activities, in relation to trenching Part F, Item 7, Sabina is required to:

Provide to the Board for approval at least sixty (60) days prior to the beginning of any trenching operations, a proposed Trenching Plan which shall include the following:

a. Size and location of trenches including GPS coordinates;
b. Approximate dimensions (length, width and depth) of each trench;
c. Proposed mitigation measures for the prevention of the transport of sediments, blasting residues, fly rock and other materials, from the trench area to nearby water bodies;
d. Projected volume and quality of water discharged from each trench with potential treatment required; and
e. Proposed monitoring program to be carried out on trench waste water prior to discharge.

Purpose and Objective

The primary objective of the 2020 trenching program will be to uncover, examine and sample bedrock exposure approximately 1.5 km west of the Goose Lake Camp (Figure 1). It is expected that this program will cause some surface disturbance of a portion of the vegetation and cover material within the proposed areas.

The purpose of these new trenching efforts within this area is to expose the potential for significant geologic elements relating to gold mineralization and exploration potential hosted in the area bedrock. Geological work will be focused on mapping, interpretation and sampling uncovered units. This work will inform future exploration, including drill programs, for deeper targets on the property.

Size, Location and Approximate Dimensions

Sabina proposes the excavations will be best contained within the Trench Proposal Area which is approximately 240 m long by 185 m wide (see attached figures). Three Planned Trench Areas, areas A, B and C, are planned within the Trench Proposal Area (see attached figures). These planned areas will not be excavated in their entirety, rather a narrow exposure will be used to locate the desired geological units then the excavation may be expanded along the length of these units.

The main Planned Trench Area A is approximately 130 m long by 85 m wide (Figure 2) of which approximately 10% will be uncovered during the 2020 program. Expected cover in this area is an average of 1 m thick resulting in the disturbance of approximately ~1,105m^3 of overburden material. Figure 3 shows the initial excavation plan for Area A. A 1-2m wide zone of investigative trenching from NE to SW and NW to SE will be used to uncover the desired units before the trench is extended.

Additional smaller excavations may be conducted in pursuit of geological units within Planned Trench Areas B and C (Figure 2). These potential trenching areas are approximately 90 m long by 15 m wide and 70 m by 15 m wide, respectively. Expected cover in this area is an average of 2 m thick and only 10-25% of each area will be excavated. Approximately 1,200 m^3 of overburden may be temporarily removed.

We plan to conduct these activities during the months of July and August 2020. Following excavation, surface samples may be taken for geochemical analysis.

The Trench Proposal Area and the Planned Trench Areas are outlined in Figure 2. Details of these areas are as follows:

Planned Trench Area A:

- Total surface area of11,050 m^2 (of which likely only <10% will be excavated)
- UTM coordinates of centroid: 432543.04E, 7269483.16N
- Average depth of overburden: ~1 m
- Total volume of overburden disturbance: 1,105m^3

Planned Trench Area B:

- Total surface area of 1,350 m^2 (of which likely only 10-25% will be excavated)
- UTM coordinates of centroid: 432390.80E, 7269500.71N
- Average depth of overburden: ~2 m
- Total volume of overburden disturbance: 675 m^3

Planned Trench Area C:

- Total surface area of 1,050 m^2 (of which likely only 10-25% will be excavated)
- UTM coordinates of centroid: 432429.11E, 7269553.22N
- Average depth of overburden: ~2 m
- Total volume of overburden disturbance: 525 m^3

Proposed Mitigation

To ensure the prevention of the transport of sediments from the work areas to nearby water bodies, Sabina will follow industry best practices and in accordance with existing license requirements, including:

- Disturbed material will be appropriately handled by trained operators;
- Disturbed material will be stored in a proximal location within a pre-disturbed area as practicality and logistics allow;
- Disturbed material may be used for filling pre-existing depressions associated with other site activities; and
- Material will not be placed closer than 0.6 m for any other excavation edge.

If Sabina determines addition exposure is necessary, or blasting is required, Sabina will notify the Board and follow all license requirements as provided above. Additional mitigation measures related to protection of freshwater sources is outlined in the next section.

The Trench Proposal Area will be used throughout the 2020 summer field season. Sabina expects the excavated areas may be left exposed as ongoing work continues on site. Upon completion of work, reclamation will be conducted and will include the restoration of the natural landscape by replacing the overburden and appropriately contouring consistent with Part I of the License. Sabina will make best efforts to segregate the top layer of organics from overburden during trench excavation; this organic

material may then be used as cover material after trenches are infilled and recontoured to facilitate restoration and natural revegetation.

Water Quantity, Monitoring, and Management

Following the clearing of overburden material, high pressure water pumps will be used to wash the exposed outcrop surface. An estimate of 200 cubic meters of water will be pumped from Goose Lake over the period of activity. A water truck will likely be driven on all-weather roads to within 100m of the trenches to store water to be used for washing outcrop.

Sabina will comply with the conditions applying to water use (Part C, Item 1 of 2BE-GOO2028) wherein the use of water from Goose Lake, Llama Lake and Umwelt Lake in summer, including proximal sources to drilling targets [and trenches] shall not exceed two hundred and sixty-seven (267) cubic metres per day. The volume of water for the purposes of this License shall not exceed two hundred and ninety-seven (297) cubic metres per day. The volume of water use will be recorded consistently and in compliance with the monitoring requirements of the water License (Part J).

Consistent with current terms and conditions of the License, Sabina will:

- Not remove any material from below the ordinary high water mark of any water body unless authorized;
- Not cause erosion to the banks of any body of water and shall provide necessary controls to prevent such erosion;
- Implement sediment and erosion control measure prior to and during the trenching program to prevent entry of sediment into water;
- Locate areas designated for waste disposal at a minimum distance of thirty (31) metres from the ordinary high water mark of any water body such that the quality, quantity or flow of water is not impaired; and
- Conduct the activity in such a way as to minimize impacts on surface drainage and shall immediately undertake corrective measures in the event of any impacts to surface drainage.

In addition, for the 2020 trenching program:

- Water used in the cleaning of the surface exposures will be controlled and pumped or drained into a designated natural depression or natural non-erosional rock pile away from natural waterways.
- Silt fencing will be employed to reduce sediment transport if trench design enables direct drainage.
- Water storage will be inspected daily for evidence of contamination and sediment content prior to discharge.
- If water is pumped from trench, retention time within the temporary containment sumps within the trench will be suitable for the sediment to settle before being discharged back to the environment.
- Upon the identification of any water questionable for discharge, a water quality test will be taken and reviewed for acceptability prior to release to the natural environment.
- Results of any water quality monitoring will be provided to the NWB in the annual report as required under the current licence (Part B, Item 2).

- Daily visual inspection for evaluation of suspended sediments (i.e. murkiness) and confirmation of gravity separation will occur. Should efficient settling not occur, and additional mitigation measures be required, the rinse water will not be discharged to the receiving environment and instead redirected to Sabina's existing cuttings sump and excavation.

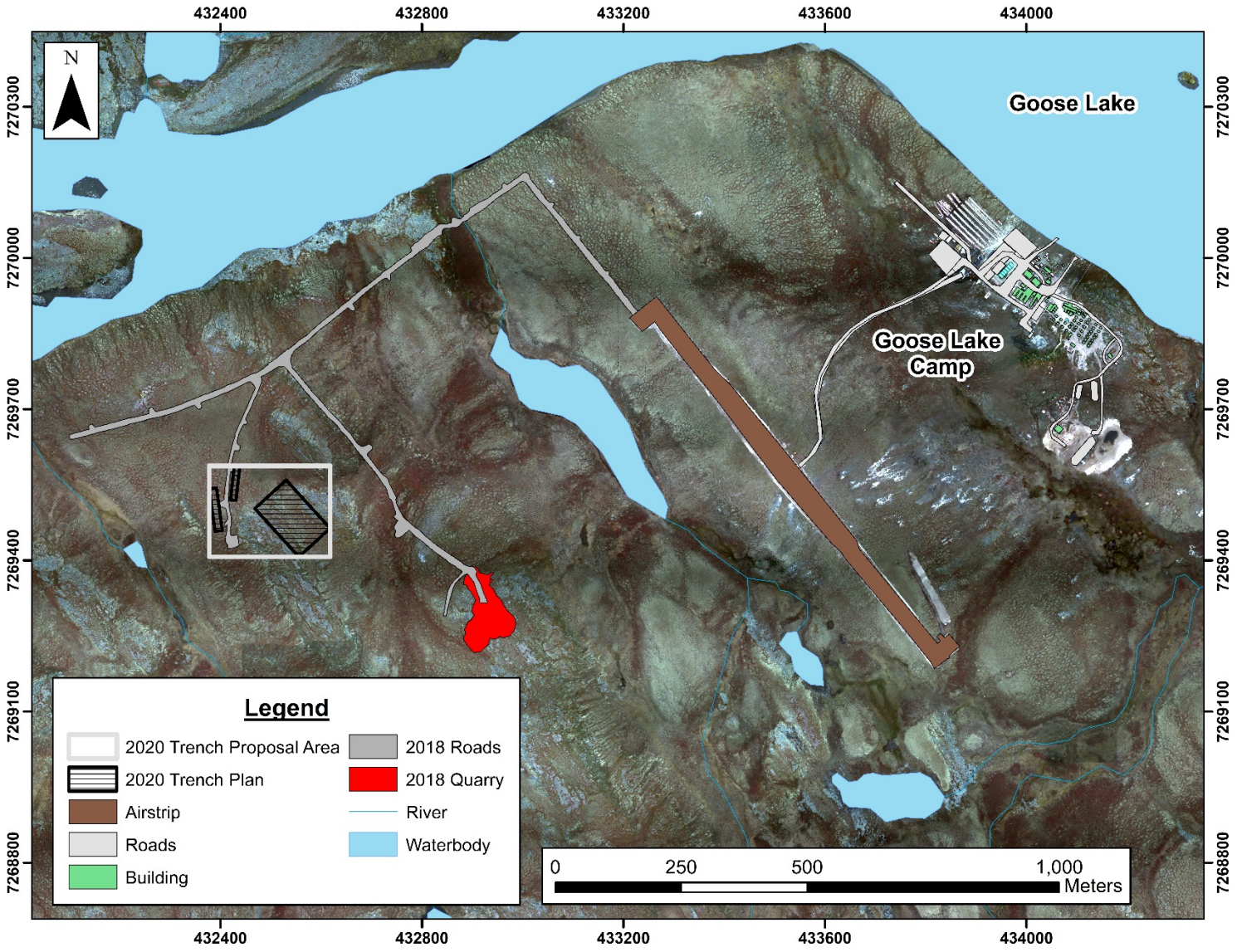

Figure 1: *Location of Trench Proposal Area in relation to Goose Lake and Goose Lake Camp.*

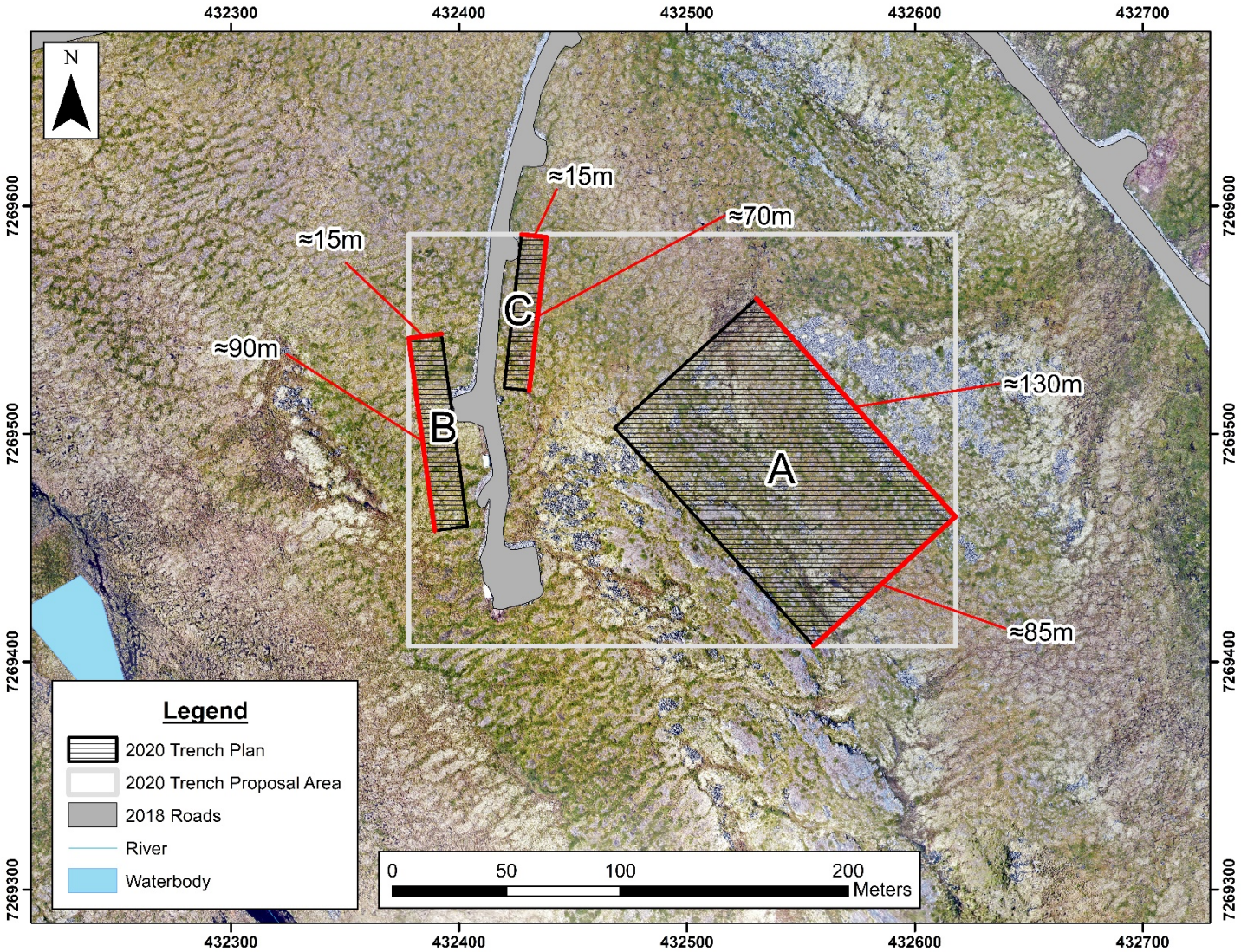

Figure 2: *Grey rectangle denotes the 2020 Trench Proposal Area; Planned Trench Area A (black hashed lines) denotes the planned area for the main trench; Planned Trench Area B & C (black hashed lines) denote the planned area for smaller, additional trenches.*

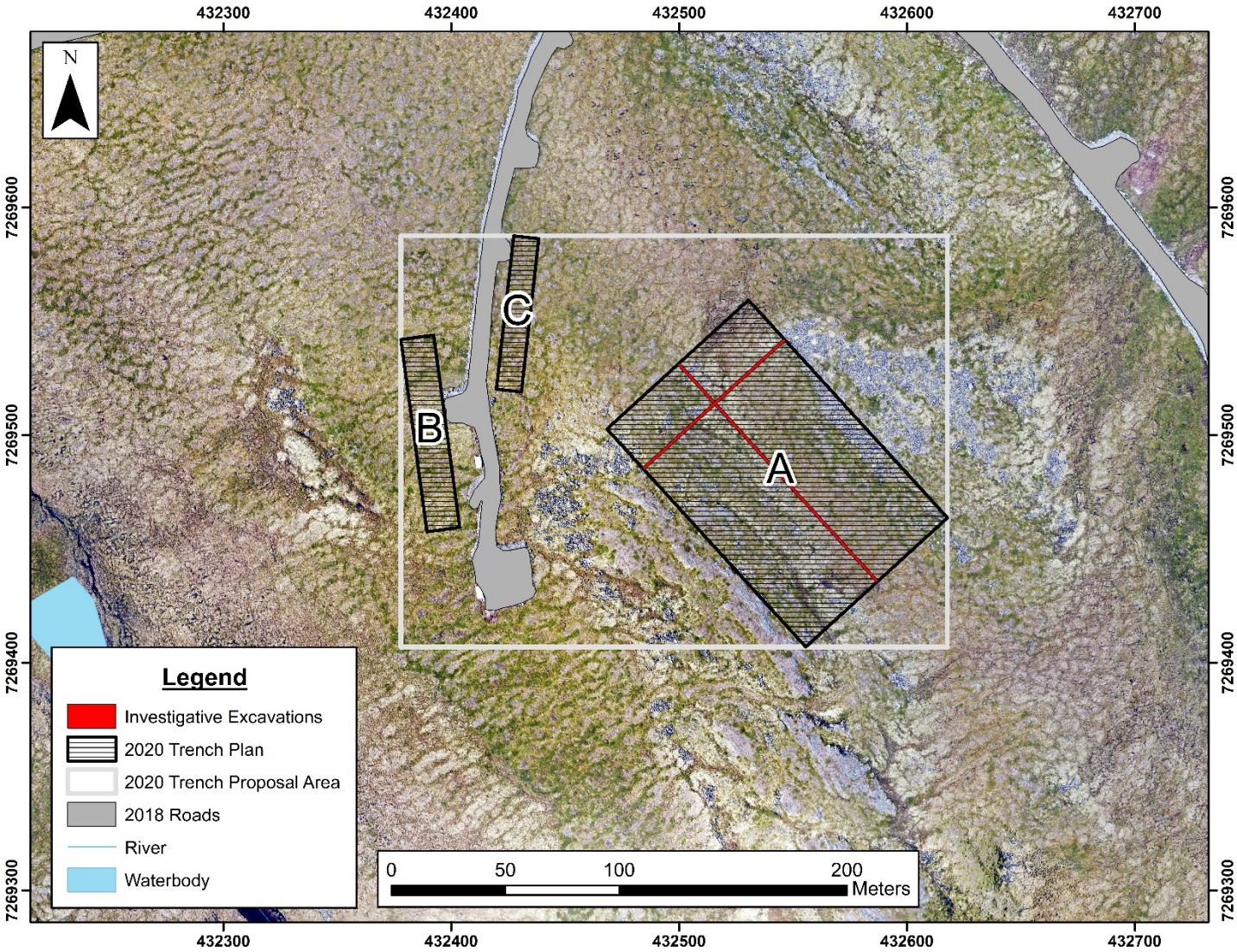

Figure 3: *The initial investigative excavation in Planned Trench Area A. The red lines represent the investigative excavations. These initial investigative excavations will only be 1-2m wide.*