

# Northstar Gold Corp. Commences Drilling at Historic High-Grade Cam Copper Mine

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Vancouver, October 24, 2023 - [Northstar Gold Corp.](#) (CSE: NSG) ("Northstar" or the "Company"), announces the Company has commenced diamond drilling at the historic Cam Copper Mine, a former high-grade copper producer on the Company's 100%-owned Miller Copper-Gold Property, situated 18 kilometres southeast of Kirkland Lake, Ontario. (Figure 1)

Northstar recently reported the Company has contracted Pelletier Drilling Ltd. of Chapais, Quebec, to conduct a 700 metre, Phase I diamond drill program targeting near-surface high-grade copper mineralization extensions at the Cam Copper Mine. Drilling has commenced and Phase I is expected to be completed by month's end.

Northstar's Phase I Cam Copper drill program is predicated on recent sampling results (Click here to see Northstar News Release dated July 5, 2023) and a new 3D mineralization model incorporating detailed historic mine sampling, drilling, development and production records. The Company's intention is to verify a volcanogenic massive sulphide (VMS) paragenesis at Cam Copper Mine, discover new copper zones, replicate and expand upon historic Zone 1 drill hole intercepts that include 12.4% Cu over 2.4m (Hole No. 3), 7.0% Cu over 1.8m (Hole No.4) and Zone 2 intercepts including 23.1% Cu over 1.4m (Hole No. 4) and 9.6% Cu over 2.6m (Hole 2-1)<sup>3</sup>.

"Cam Copper Mine represents a unique and compelling high-grade copper exploration opportunity that dovetails with Ontario's Critical Minerals exploration focus," states Brian P. Fowler, President, Director and CEO of Northstar. "While gold exploration at the Miller Property continues to have significant upside and remains a focus of the Company, Northstar sees significant expansion upside at Cam Copper that can be more easily fast tracked. Phase I drilling is aimed to substantiate this."

Mineralized zones at Cam Copper have been defined by surface mapping and sampling, historic drilling, EM and I.P. surveys for 65 metres along strike to the southeast, representing at least 170 metres of down plunge depth extent; well below the 200' level of the historic mine workings. Additional EM and I.P. targets extend for up to 900 metres along strike to the southeast, lateral to the Round Lake Granite Batholith contact.

## The Historic Cam Copper Mine

The Cam Copper Mine hosts at least two separate lenses (Zone 1 and Zone 2) of massive copper sulphides about 40 metres apart striking and plunging southeast along the contact with the Round Lake Granite Batholith (Figures 1 and 2). Laminated sulphides hosted in tuff with lower grade copper values are reported to occur on either side of the massive copper sulphide bands. The copper mineralization is focused along the steeply plunging intersection of northeast striking silicified tectonic breccias with southeast striking, vertically dipping bands of silicious sulphide facies iron formation within felsic and mafic tuffaceous units. The copper zones remain open down plunge to the southeast. The nearby former producing Amity and Patterson copper mines occur within the same geologic formation along strike to the northwest.

## Figure 1. Cam Copper Mine Geology and Location Map

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## Figure 2. Cam Copper Mine Surface Geology, Underground Workings and Historic Drill Results

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### Underground Development and Historic Copper Production

Underground development at Cam Copper Mine took place between 1929 and 1953 and includes a 220ft (66.7m) vertical shaft, 213ft (64.5m) of crosscuts and 267ft (80.9m) of drifts (Figure 3). Historic drill results and Northstar's recently reported surface sampling results (see Northstar News Release dated July 5, 2023) substantiate historic reporting of a 1955 shipment of 346 tons of hoisted underground ore which produced 43,411 lbs. of Cu<sup>1</sup> at a Noranda smelter for a recovered grade of 6.3% Cu. The ore was shipped directly from the mine site to the smelter without requiring further concentration in a mill. A previous 1948 shipment of 22 tons of ore to Noranda reportedly graded 12.72% Cu, 0.84 oz/t Ag and 0.03 oz/t Au<sup>2</sup>, presumably from Zone 1.

### Figure 3. Cam Copper Mine 3D Model, Mineralized Zones, Historic Diamond Drill Results and Proposed Drilling

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### Historic Drilling

Historic drilling intercepts in Zone 1 by Consolidated Golden Arrow Mines Ltd. at the Cam Copper Mine include<sup>3</sup>:

- 1.6% Cu over 6.6' (2.0m) in DDH 1
- 9.8% Cu over 4' (1.21m) in DDH 1A
- 12.4 % Cu over 7.8' (2.36m) in DDH 3
- 7.0% Cu over 6' (1.82m) in DDH 4

Average sampling grade reported in Zone 1 was 8.5% Cu over a true width of 4.4' (1.33m) indicated over 100' (30.3m) along strike.

Historic drilling intercepts by Consolidated Golden Arrow Mines Ltd. in Zone 2 include<sup>3</sup>:

- 10.5% Cu over 0.5' (0.15m) in DDH 2
- 19.9% Cu over 3.1' (0.94M) in DDH 3
- 23.1% Cu over 4.6' (1.39m) in DDH 4 ---> down plunge extension below workings
- 12.4% Cu over 3.3' (1.0m) in DDH 7 ---> down plunge extension below workings

Average sampling grade reported in Zone 2 was 10% Cu over a true width of 2.8' (0.85m) indicated over 140' (42.4m) along strike.

Bornite was reported to be common in Zone 2 with the bornite rich pods of massive sulphides remaining open down plunge to the southeast<sup>3</sup>.

<sup>1</sup> Ontario Ministry of Energy, Northern Development and Mines Mineral Deposit Inventory Record MDI31M13NW000154: Tretheway-Ossian- 1981, Ch.H. Cameron-1981.

<sup>2</sup> Ontario Ministry of Energy, Northern Development and Mines and Mines Assessment File #KL-0259, Tretheway-Ossian (Cam Copper Mine). 1961

<sup>3</sup> Ontario Ministry of Energy, Northern Development and Mines and Mines Assessment File #KL-0843, Prospectus of Fidelity Mining Investments Ltd. 1962

All scientific and technical information contained in this News Release has been prepared under the supervision of Brian P. Fowler, P.Geo. President, CEO and Director of [Northstar Gold Corp.](#), a Qualified Person within the meaning of National Instrument 43-101.

About North[Star Gold Corp.](#)

Northstar's primary exploration focus is the advancement of the Company's flagship, 100%-owned Miller Gold Property, situated 18 km southeast of Kirkland Lake and Agnico Eagle Mine's Macassa SMC gold mine. The Company's strategy is to develop either a minimum material (+1 million ounce) high-grade gold mineral resource to potentially supplement a nearby mining operation or a stand-alone mining operation at the Miller Gold Property.

Since going public by IPO in late 2020, Northstar has spent over \$4.7 million in exploration at Miller, resulting in the discovery of a series of broad, near-surface, shallow dipping sheeted quartz-gold-telluride vein structures in the Allied Syenite (Allied Gold Zone, or AGZ) and Planet Syenites and numerous 70 - 750 gold gram/metre drill hole intercepts. Drilling to date at the AGZ has returned near-surface gold intercepts that include 6.6 g/t Au over 117.0 metres, 4.0 g/t Au over 50.6 metres, 1.4 g/t Au over 118.5 metres, and 1.2 g/t Au over 107.3 metres. Step out AGZ drilling in 2021 intersected peripheral steeply dipping copper-gold bearing structures (CG1 and CG2 Zones) returning intercepts that include 9.41 g/t Au, 1.03% Cu over 3.0m. The AGZ shares numerous compelling similarities to Agnico Eagle's nearby Upper Beaver Deposit, currently in the pre-development stage.

In April, 2022, as a precursor to a Mineral Resource Estimate and for reporting purposes, the Company commissioned Ronacher Mackenzie Geoscience and SRK Consulting (Canada) to conduct an Exploration Target Study of the Miller Property Allied Gold Zone and No. 1 Vein. An upper range exceeding 500,000 ounces of gold averaging 2.04 g/t Au has been referenced in this study. Results were reported July 26, 2022, (Click here to view Northstar News Release dated July 26, 2022) verifying the significance, size and gold grade potential of the Allied gold mineralizing system. Results provide the Company and investors a fact-based conceptual tonnage and gold grade range for the Allied Syenite Gold Zone, and basis for continued expansion drilling and mineral resource development.

In addition to drill testing extensions of the high-grade Cam Copper Mine this Fall, Northstar is positioning to conduct a Phase IIIA Allied Gold Zone lateral and depth expansion drill program on the Miller Gold Property.

Northstar has 3 additional 100%-owned exploration projects in northern Ontario, including the recently acquired 1,200 ha Rosegrove Property situated 0.5 km from the Miller Gold Property, the 4,650 ha Bryce Gold Property (includes the recently optioned Britcanna Lease), an intrusive-gold / PME VMS project located along the projected east extension of the Ridout Break, and the recently expanded Temagami-Milestone Cu-Ni-Co Critical Minerals Property located in Strathcona Township. Northstar is advancing all 3 properties to enhance monetization opportunities.

On behalf of the Board of Directors,

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