



**NWR Virtual Australian Explorers Conference
14 September 2022**



Disclaimer

Preparation

This Presentation has been prepared to provide prospective investors in Great Northern Minerals Limited, ACN 000 002 111, (“The Company” or “Great Northern Minerals”), with general information to assist them in deciding whether they wish to undertake their own investigation and/ or consider a possible investment in the Company or the Company’s projects.

This Presentation has not been independently verified for reliability, completeness or accuracy. No representation is made that such information and materials are reliable, complete or accurate. This Presentation is not a prospectus and does not constitute an offer or invitation or recommendation to any person and has been prepared solely for use by persons who are deemed to be “sophisticated investors” as described in the Corporations Act.

Projections and Assumptions

The projections and assumptions in this Presentation are indicative only and are not and should not be relied upon as representations as to future matters. The projections are based on assumptions that may or may not prove to be correct. The recipient must make their own independent assessment and investigation of those projections and assumptions. Investors will be required to undertake at their cost, any additional works needed for an investment decision.

Disclaimer

The Company and its respective shareholders, directors, partners, employees, officers, agents, consultants or advisors disclaim (to the maximum extent permitted by law) all duties and liabilities, including liability for negligence, for any loss or damage which is suffered or incurred by any person acting on any information provided or omitted to be provided by any of them in connection with an investment in The Company or any statements, opinions or matters (expressed or implied) arising out of, or contained in, or derived from, such information

No Offer, Invitation, Recommendation /Advice

The information set out in this Presentation does not constitute an offer or invitation to subscribe for securities in The Company or investment in the assets of the Company, or a recommendation by The Company to any person in respect of any matter.

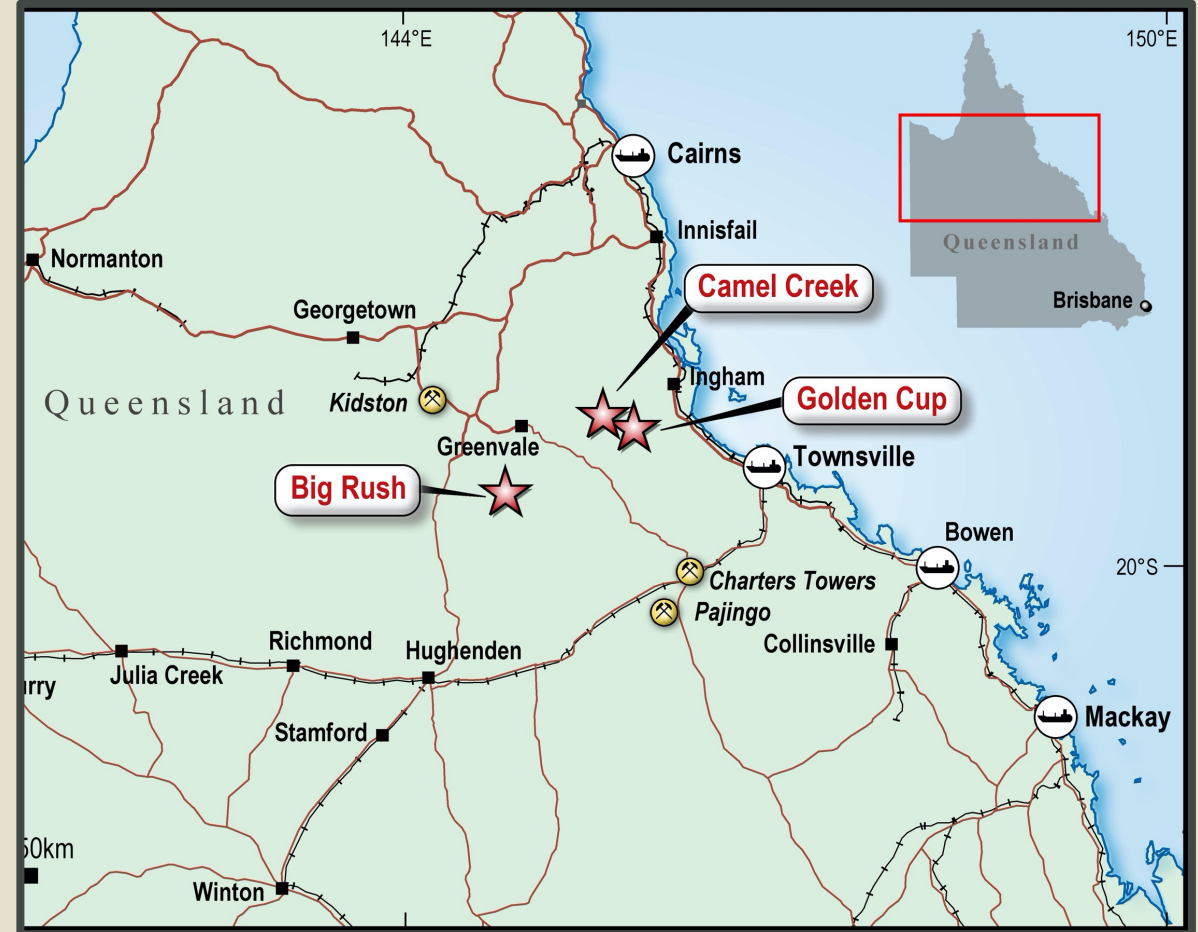
Corporate Snapshot – highly experienced team with a focus on delivery

Corporate Structure	
Shares on issue	1,709m
Listed options on issue	714m
Unlisted options on issue	67m
Share price	A\$0.004 per share
Market capitalisation	A\$6.8m
Cash ⁽¹⁾	A\$2.7m
Debt	Nil
<i>(1) As at 30 June 2022</i>	

Board of Directors	
Non-Executive Chairman	Kim Robinson
<ul style="list-style-type: none"> Geologist - 35 years' experience in mineral exploration and mining Forrestannia Gold, Jubilee Mines, Kagara and Energia Metals Exceptional track record of discovery, project development and operation 	
Managing Director	Cameron McLean
<ul style="list-style-type: none"> 25 years' experience in resource sector Snowden Mining Industry Consultants, Queensland Pacific Metals 	
Non-Executive Director	Simon Coxhell
<ul style="list-style-type: none"> Geologist - 35 years' experience in exploration, development & mining Previously MD/CEO of Echo Resources (acquired by Northern Star for A\$244m in 2019) 	
Non-Executive Director	Donald Garner
<ul style="list-style-type: none"> Geologist/Investment Banker - 25 years' experience in resource sector Previously MD/Executive Director of Red River Resources 	
Company Secretary	Aida Tabakovic
<ul style="list-style-type: none"> Accounting, reporting compliance - 10 years' experience in resource sector Involvement in a number of junior explorers listed on the ASX 	

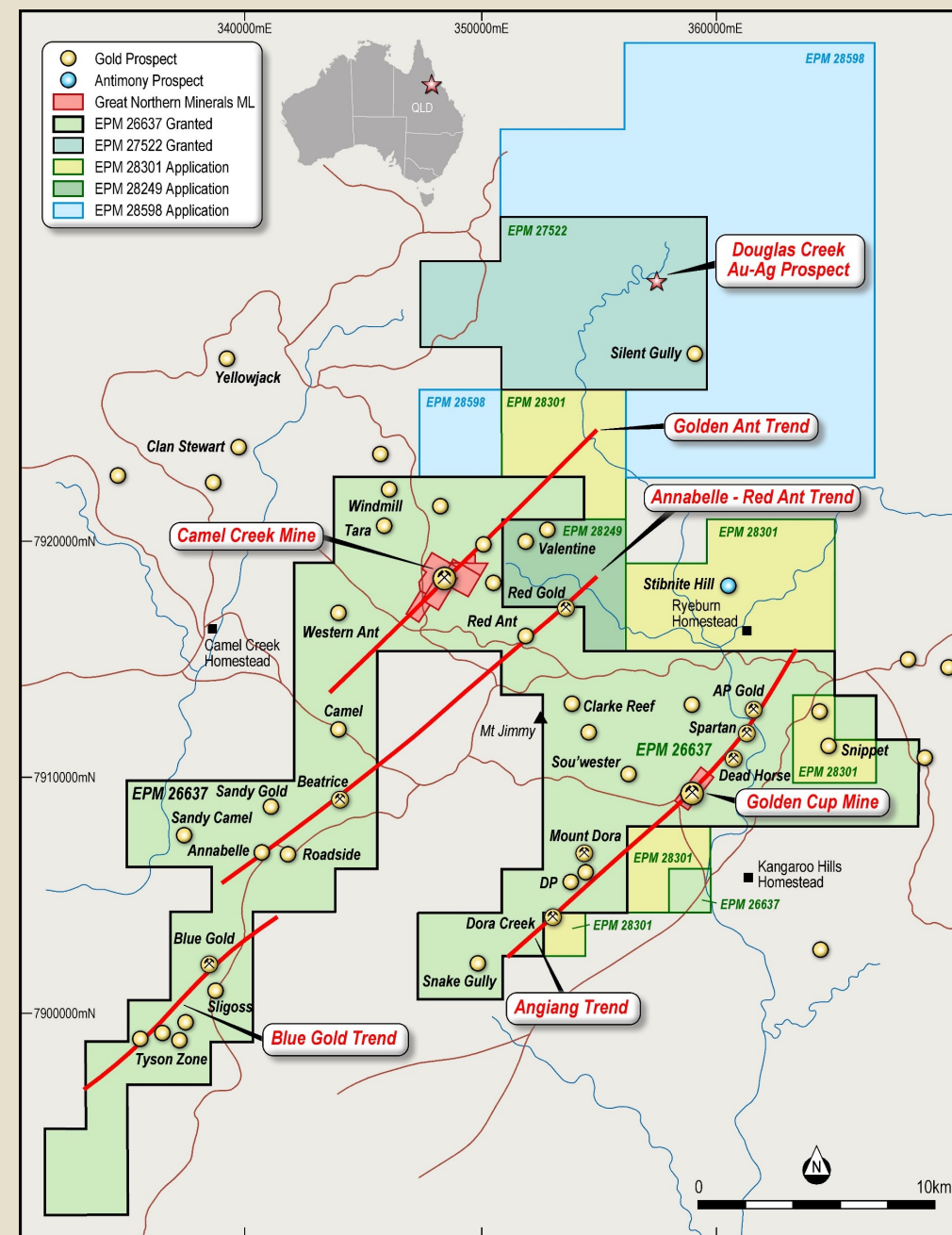
Golden Ant Project – high grade gold & antimony resource base

- Located in North Queensland - consists of three key deposits – Camel Creek, Golden Cup and Big Rush
- Gold mineralisation occurs in quartz veins with variable contents of gold, pyrite, arsenopyrite and stibnite
- Mineral Resource of 6.1Mt @ 2.0 g/t Au (386koz Au)
- Significant antimony exposure – Camel Creek (9,000 tonnes contained Sb @ 0.4% Sb) plus multiple Sb exploration targets
- Historic mining operations (1989 to 1994) consisting of open pit mining (oxide ore) with gold recovered by heap leaching. Mining activities ceased on depletion of oxide mineralisation – fresh (sulphide) mineralisation was exposed in all open pits
- GNM acquired 100% of the project in 2020, and to date have:
 - Completed initial JORC Resource (Big Rush, Golden Cup, Camel Creek);
 - Drilled over 18,000m;
 - Consolidated regional landholding; and
 - Commenced scoping study



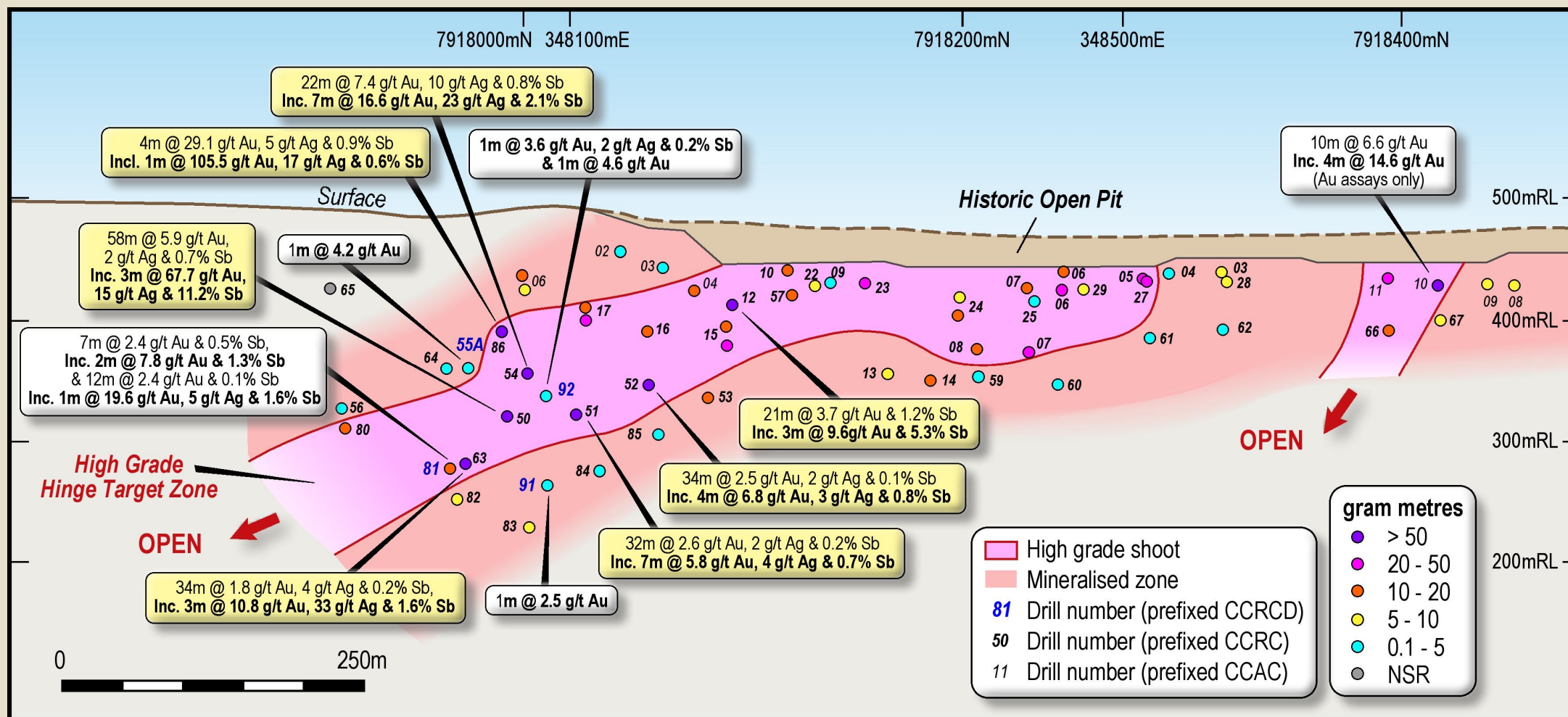
Camel Creek Project

- GNM's key project in North Queensland – approximately 660km² ground holding covering four known gold-antimony trends (structural corridors)
- 8 granted mining leases, 2 granted EPM and 3 EPM applications
- High grade JORC Mineral Resource
 - Camel Creek: 2.4 Mt @ 2.6 g/t Au & 0.4% Sb (202koz Au & 9,000t Sb)
 - Golden Cup: 0.3Mt @ 3.4 g/t Au (30koz Au)
 - Material potential to increase Mineral Resource
- Exciting Douglas Creek discovery (Ag-Au-Cu Intrusion Related Gold System)
- Focus of GNM's exploration effort
 - Recently completed 11 hole RC drill program at Golden Cup (assays pending)
 - Mapping, rock chip and soil sampling at Douglas Creek – targeting drilling in November 2022



Camel Creek Deposit: High-Grade Gold & Antimony

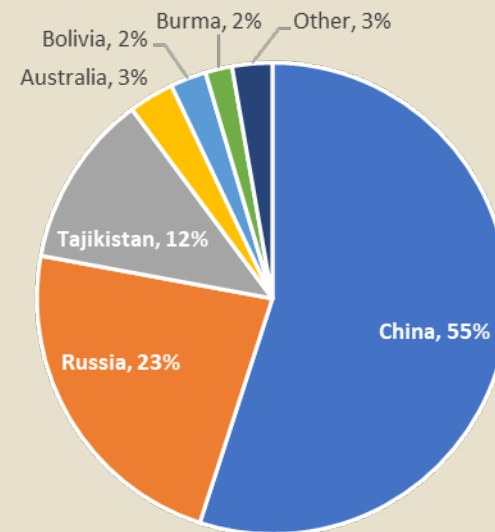
- 28 open pits mined over 5km of strike length for >1 Mt mined at 1.7 g/t Au
- Camel Creek Mineral Resource (**2.4Mt @ 2.6 g/t Au & 0.4% Sb**) is open at strike & depth – potential for material increase
- Hinge Zone (high-grade Au-Ag-Sb shoot) is a priority drill target – **CCRC54 intersected 3m @ 67.7 g/t Au, 15 g/t Ag & 11.2% Sb**



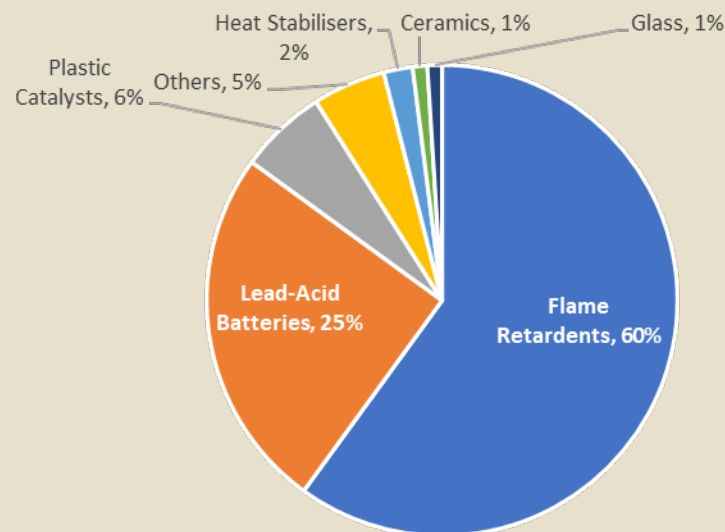
Antimony: Exciting Exposure to a Critical Raw Material

- Critical Raw Materials are metals and minerals essential to economic and national security and are vulnerable to supply chain disruptions
- Antimony has been identified as a critical raw material by the US, UK, EU, Japan, Canada and Australia
- Antimony mine production is dominated by China (55%) and Russia (23%)
- Approx. 3% of global mine production is sourced from Australia (Costerfield Sb-Au mine, Victoria)
- Antimony's main current uses are in fire retardants used in virtually all consumer and industrial plastics and lead-acid batteries
- Emerging technology for large capacity energy storage batteries points to antimony being a critical raw material for the clean energy transition
- **Recent and ongoing geo-political shockwaves from the Russia-Ukraine conflict have driven antimony prices to US\$14,000 per tonne (Argus, 18 March 2022)**

World Antimony Mine Production 2021 (USGS)

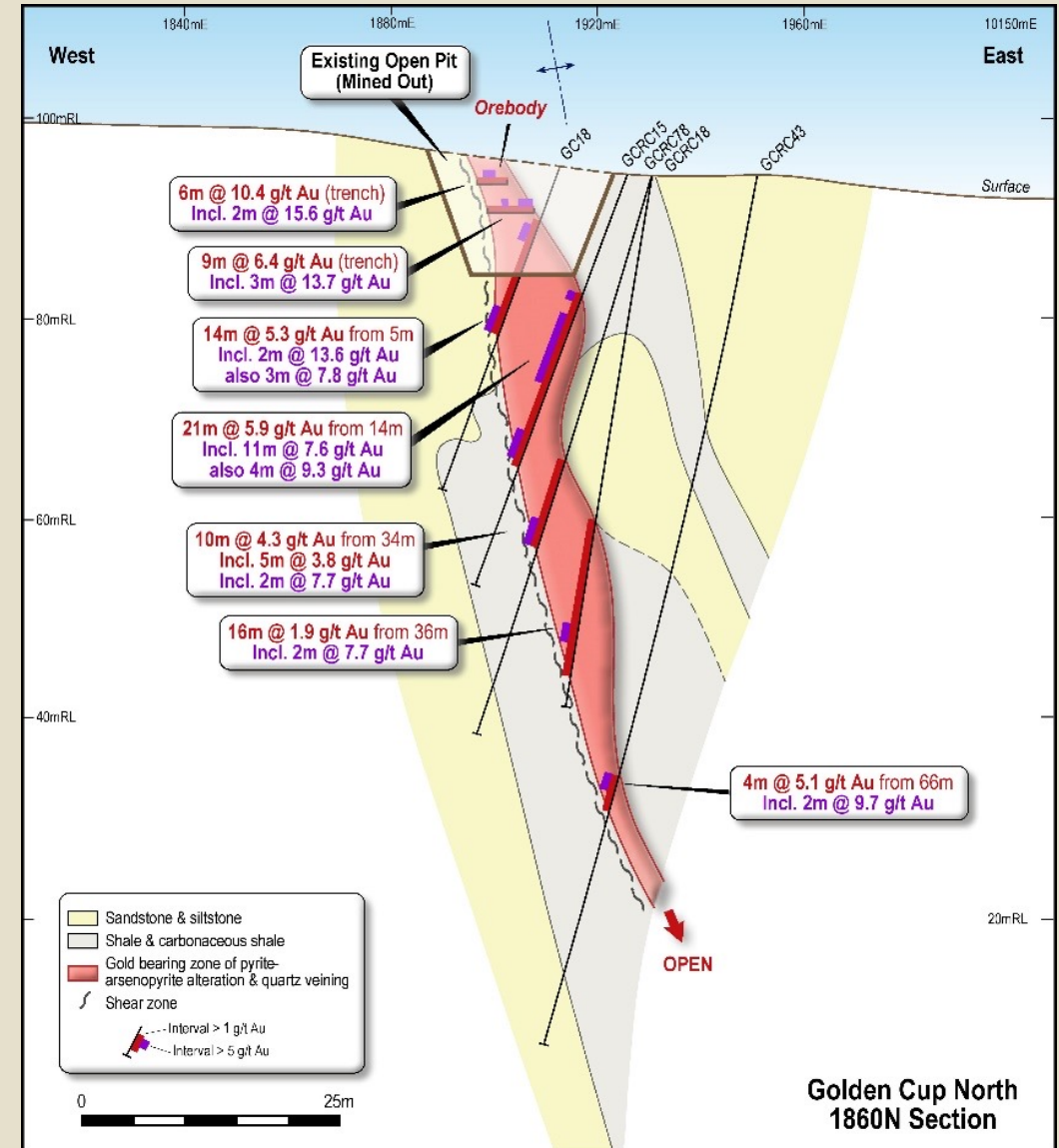


Antimony End Uses (USGS, Roskill)



Golden Cup Deposit

- 9 pits mined over 1,700m of strike length for 0.2Mt tonnes mined at an average grade of 2.8 g/t Au, with production finishing in 1993
- Ore extracted from 9 pits over a 1.5km strike length with an average pit depth of less than 15m
- 90% of drilling was less than 50m deep and mineralisation remains open at depth and along strike
- RC Drilling in December 2019 returned high grade gold intercepts including:
 - 7m @ 7.5 g/t Au from 32m 9m @ 4.7 g/t Au from 42m (GCRC078); and**
 - 9m @ 4.7 g/t Au from 42m (GCRC078)**
- Golden Cup Mineral Resource (**0.3Mt @ 3.4 g/t Au**) is open at strike & depth
- Recently completed 11 RC drill holes (1,022m) at Golden Cup – assay results pending



Golden Ant Project – Next Steps

- GNM announced (8 March 2022) an initial Golden Ant Project Mineral Resource of 6.1Mt @ 2.0 g/t Au (385koz Au) with significant antimony exposure at Camel Creek (9,000 tonnes cont. Sb)
- Scoping study underway – seek to understand the current economic viability of the Project – focus is on the higher grade Camel Creek and Golden Cup assets
- Reviewing potential options for Big Rush

	Camel Creek	Golden Cup	Big Rush
JORC Resource	2.4Mt @ 2.6 g/t Au & 0.4% Sb	0.3Mt @ 3.4 g/t Au	3.4Mt @ 1.8 g/t Au
Resource Upside	Open at depth & strike Previous mining to only shallow depths (<30 m) High-grade drill intersections beneath open pits		
Satellite Deposits	Beatrice, Red Gold, Blue Gold	Dora Creek, Mt Dora, Dead Horse, Spartan, AP Gold	Janelle's Hope, Yellow Jack*
Exploration Potential	Limited modern or systematic exploration		

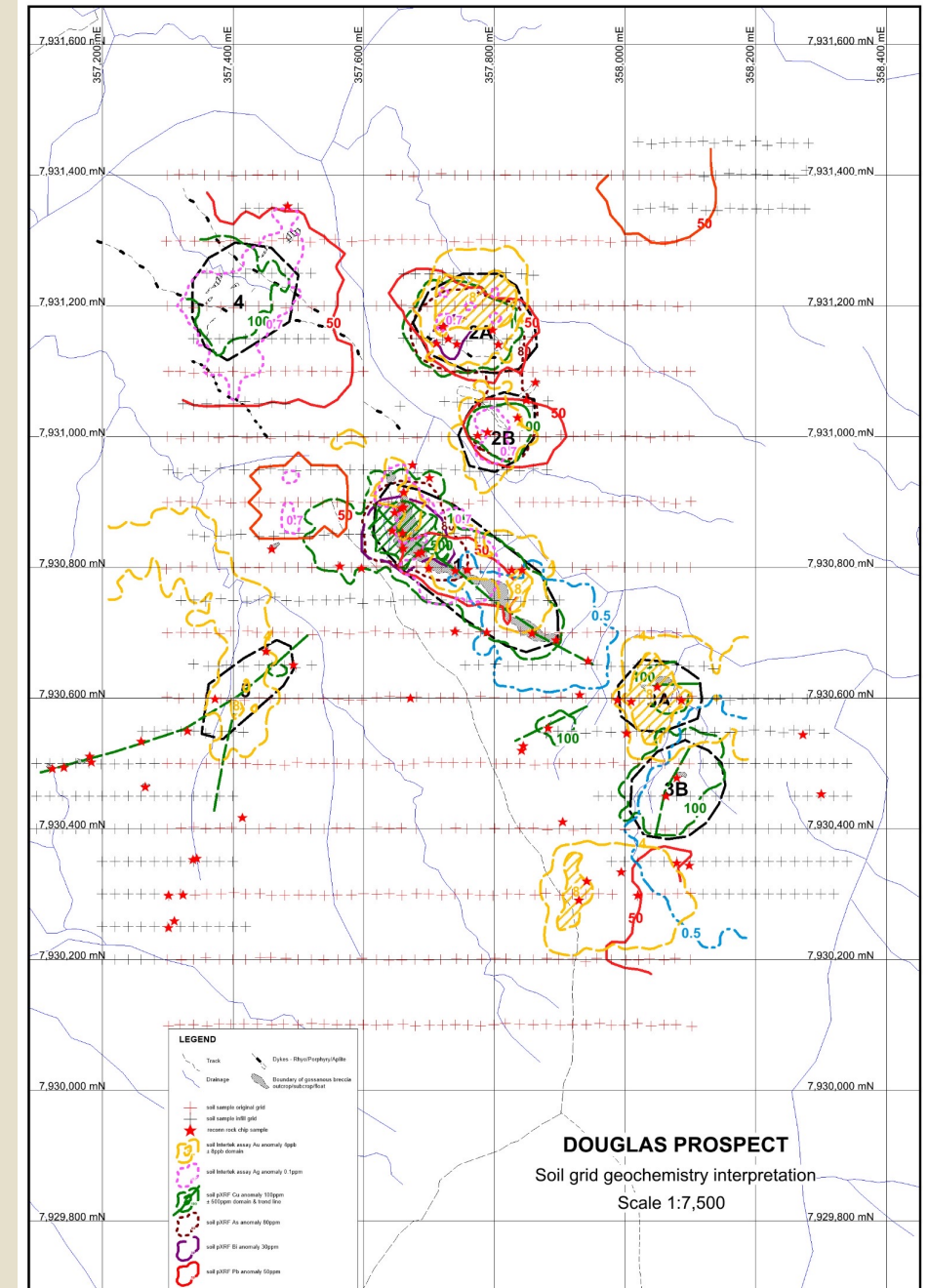
**Janelle's Hope and Yellow Jack are held by 3rd parties*

A man wearing a wide-brimmed hat, a light-colored short-sleeved shirt, and blue jeans is standing in a wooded area. He is holding a yellow handheld device, possibly a GPS or a data logger, and looking down at it. The ground is covered with dry grass, rocks, and some scattered debris. A backpack is visible on the ground to his right. The background shows a dense forest of tall, thin trees with green foliage.

Douglas Creek Greenfield Au-Ag-Cu discovery

Douglas Creek Greenfield Au-Ag-Cu discovery

- GNM discovered the Douglas Creek Intrusion Related Gold System (IRGS) Deposit in early 2022
- Multiple zones (at least 5) of outcropping/subcropping high grade mineralisation over >125ha
 - **Highly soil assays: up to 38.1 ppb Au, 4.0 g/t Ag and 1,023 ppm Cu**
 - **Exceptionally high rock chips - up to 8.6 g/t Au, 288 g/t Ag and 11% Cu**
- Anomalous soil results coincide with rock chips, bolstering these areas as potential drill targets
- Drill preparation activities have commenced - initial drill program design completed, landholder access agreement has been signed and Native Title clearance activities will shortly commence
- Aiming to commence drilling by November



**Douglas Creek:
Sheared-brecciated quartz
veined, gossanous
fragmental volcanoclastic
with secondary malachite**



Great Northern Minerals – looking forward

Camel Creek Project

- Golden Cup drilling complete – assay results pending
- Scoping study progressing – understanding the project viability
- Exploration continuing – increase resource base (Au & Sb)

Douglas Creek Discovery

- Exciting greenfield Au-Ag-Cu discovery at Douglas Creek
- Exceptional rock chip and soil assay results over >125ha
- First phase drilling – targeting November 2022

Antimony Exposure

- Antimony has been identified as a critical raw material
- GNM has significant exposure through Camel Creek Project
- Reviewing additional Sb targets – grow Sb exposure going forward

Pivot to Future Facing Metals & Materials

- Pivot to future facing metals to position GNM to take advantage of the transition to a net zero emissions future
- Exciting Douglas Creek discovery could deliver material Cu exposure
- Target additional Cu rich precious metal projects



For more information please contact:

Managing Director

Cameron McLean

+61 8 6214 0148

Investor Relations

Peter Taylor, NWR Communications

+61 412 036 231

Competent Persons Statement

Competent Persons Statement – Exploration Results

The information in this presentation that relates to Exploration Results is based on information compiled under the supervision of Simon Coxhell, the Technical Director of Great Northern Minerals Limited. Mr. Coxhell is a member of the Australasian Institute of Mining and Metallurgy and has sufficient experience of relevance to the styles of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.” Mr. Coxhell consents to the inclusion in this report of the matters based on his information in the form and context in which they appear.

Competent Persons Statement – Camel Creek and Big Rush Mineral Resources

The information in this presentation that relates to Mineral Resources is based on information compiled by Mr. Lynn Widenbar, a Competent Person who is a Member of the Australasian Institute of Mining and Metallurgy. Mr. Widenbar is a full-time employee of Widenbar and Associates Pty Ltd. Mr. Widenbar has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity that is being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the ‘Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves’. Mr. Widenbar consents to the inclusion in the report of the matters based on his information in the form and context that the information appears.

Competent Persons Statement – Golden Cup Mineral Resource

The information in this presentation that relates to Mineral Resources is based on information compiled by Andrew Beaton (Mineral Resources) a part time consultant to Great Northern Minerals. Mr Beaton is a member of the Australasian Institute of Mining and Metallurgy and has sufficient experience of relevance to the styles of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as Competent Persons as defined in the 2012 Edition of the “Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.” Mr Beaton consents to the inclusion in this report of the matters based on their information in the form and context in which it appears.

Refer to previous ASX announcements on the 14 May 2019, 20 June 2019, 4 July 2019, 11 July 2019, 5 August 2019, 15 August 2019, 25 November 2019, 10 December 2019, 12 December 2019, 16 December 2019, 20 December 2019, 23 December 2019, 28 January 2020, 7 February 2020, 18 August 2020, 9 September 2020, 16 September 2020, 7 October 2020, 26 October 2020, 15 December 2020, 14 January 2021, 25 February 2021, 17 May 2021, 11 June 2021, 28 June 2021, 9 September 2021, 18 October 2021, 8 February 2022 and 8 March 2022 in respect of historic drilling intersections, exploration targets and mineral resources. Great Northern Minerals is not aware of any new information or data that materially affects the information included in the relevant market announcements listed.

Golden Ant Mineral Resource (0.5 g/t Au cut-off)

	Resource	Tonnes	Gold	Antimony	Contained Gold	Contained Antimony
	Classification	(kt)	(g/t)	(Sb %)	(koz)	(tonnes)
Camel Creek ⁽¹⁾	Indicated	1,440	2.7	0.4%	127	5,700
	Inferred	970	2.4	0.3%	75	3,300
	Sub Total	2,410	2.6	0.4%	202	9,000
Big Rush ⁽²⁾	Indicated	2,236	1.7	-	99	-
	Inferred	1,203	1.8	-	54	-
	Sub Total	3,439	1.8	-	153	-
Golden Cup ⁽³⁾	Indicated	-	-	-	-	-
	Inferred	279	3.4	-	30	-
	Sub Total	279	3.4	-	30	-
Camel Creek		2,410	2.6	0.4%	202	9,000
Big Rush		3,439	1.8	-	153	-
Golden Cup		279	3.4	-	30	-
Golden Ant Project	Total	6,128	2.0	-	386	-
Tonnages and grades are rounded. Discrepancies in totals may exist due to rounding.						
(1) Widenbar & Associates 3 March 2022						
(2) Great Northern Minerals ASX release dated 21 February 2021						
(3) Great Northern Minerals ASX release dated 9 December 2019						