



## The new strategic mineral...

### INVESTMENT HIGHLIGHTS

- Graphite is a key component of the green economy through its use in lithium-ion batteries (“LiBs”), fuel cells, electric vehicles, grid storage, graphene, vanadium redox batteries and many other technologies
- Northern is a mineral development and technology company focused on developing its Bissett Creek graphite deposit and upgrading mine concentrates into high value products that enable the green economy
- An independent study estimates that Bissett Creek will have the highest margin of any existing or proposed graphite deposit due to its very favorable location, simple metallurgy and high quality concentrates
- Bissett Creek is an advanced stage project with a Feasibility Study and its major mining permit, putting the Company in position to make a construction decision, subject to financing
- The Project is located in the southern part of Canada between the cities of North Bay and Ottawa and close to the Trans-Canada highway providing ready access to labor, supplies, equipment, natural gas and markets.

### WHAT IS GRAPHITE?

- Graphite and diamonds are the only two natural forms of pure carbon.
- Graphite conducts heat and electricity very well, maintains its strength to temperatures of 3,600°C and is corrosion resistant.
- Graphite is one of the lightest of all reinforcing agents and has high natural lubricity.
- It is used in refractories (fire bricks that line furnaces in the steel industry), fuel cells, lithium ion batteries, brake pads, gaskets and clutch parts, thermal management in consumer electronics, electric motors, fire retardants, pencils, lubricants and many other industrial applications.
- There are almost **no substitutes for**, and little recycling of, graphite.
- A graphite flake is many, many layers of graphene, which is one atom thick and touted as the new wonder material.



### GRAPHITE – THE NEW STRATEGIC MINERAL

- China controls 70-80% of world graphite supply and western alternative sources are needed.
- China makes almost 100% of the graphite anode material for lithium-ion batteries/EVs
- Both the EU and USA have named graphite a **supply critical mineral**.
- Graphite production must more than double over the next five years based on announced investments by LiB and automobile manufacturers.





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### NGC:TSXV

#### CAPITAL STRUCTURE

<b>Shared Outstanding</b>	75,800,756
Options	4,500,000
Warrants	11,554,487
<b>Fully Diluted</b>	<b>89,813,922</b>

- Approximately 8% F.D. owned by management and insiders
- \$4.5 million in cash, no debt



### PROJECT HIGHLIGHTS

- The Bissett Creek project is in the southern part of Canada and close to infrastructure which will reduce the cost of labor, supplies, equipment, power and shipping.
- The estimated capital cost is CDN\$110 million including a contingency. The Company hopes to be in production in 2022 (subject to financing).
- The mine is expected to produce an average of 25,000 tonnes of graphite concentrate per year for 23 years. Production will be almost 90% large/extra large flake, the highest ratio in the industry, resulting in premium pricing.
- Cash operating costs are estimated at US\$675/t of concentrate giving Bissett Creek the highest margin of any project due to a simple flow sheet, natural gas power generation and proximity to infrastructure.
- Measured and indicated resources are large enough to significantly expand production in the future.



### CORPORATE STRATEGY

- China has large resources and excess production capacity for small flake which is used to make the anode material in lithium ion batteries. This surplus capacity will be used up as the substantial growth projections for EVs and grid storage are realized.
- Chinese production of large/XL/XXL flake is declining while demand in industrial markets is growing.
- The only North American graphite mine will close soon due to the depletion of resources.
- There is a real opportunity to build a new western mine and Bissett Creek has the unique combination of a very good flake size distribution, a realistic production level and a reasonable capital cost.
- The economics of the project will be further enhanced by secondary processing to produce value added products.
- A North American source of production will enable the company to win market share from existing suppliers who depend on Chinese graphite.

### MANAGEMENT & DIRECTORS

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