

## Superior Expands Greenvale Project by 56% to 3,602km<sup>2</sup> Becoming the Largest Landholder in the Region

### HIGHLIGHTS:

- **Significant Expansion:** Superior has increased its Greenvale Project by 56% to 3,602km<sup>2</sup>, establishing Superior as the largest landholder in the region
- **Highly Prospective Tenements:** The newly acquired areas cover regions known for producing major mineral deposits, represents the right geological settings for generating significant mineral deposits
- **World Class Opportunity:** Greenvale's highly unique geological setting has proven prospectivity for multiple Tier 1 size deposits, including porphyry Cu-Au, orogenic Au, high-grade VMS Cu-Au-Ag, Norilsk and Voisey's Bay style Ni-Cu-PGE, lateritic Ni, and uranium
- **Strong Pipeline of Targets:** The project includes several high-potential mineral systems already identified, such as Bottletree, Cockie Creek, Wyandotte, Steam Engine, Hall's Reward and Telegraph
- **Previous Exploration at Greenvale** has already delivered strong results, including:
  - **Bottletree & Cockie Creek:** multiple thick porphyry Cu-Au intersections, such as <sup>[1]</sup>:
    - 632m @ 0.21% Cu + 0.03g/t Au, incl 224m @ 0.40% Cu + 0.05g/t Au
    - 117m @ 0.52% Cu + 0.11g/t Au
    - 320m @ 0.21% Cu + 0.05g/t Au
    - 248m @ 0.28% Cu + 0.06g/t Au
  - **Hall's Reward:** high-grade copper up to 13.5% Cu in historical drilling. <sup>[2]</sup>
- **Extensive historical datasets** (geophysics and geochemistry) available to fast-track target definition and field programs on grant
- **Assay results expected shortly** from rock chip sampling at Hall's Reward, intended to guide drill targeting and subsequent exploration programs.
- **Advanced discussions underway** with development, financing and offtake partners, positioning the company for accelerated growth and production

Superior Resources Limited (ASX:SPQ) (Superior, the Company) is pleased to advise that it has lodged four new Exploration Permit for Mineral Applications (EPMAs) covering 1,295km<sup>2</sup>, expanding its 100%-owned Greenvale Project in northeast Queensland to 3,602km<sup>2</sup>. This represents a 56% increase in project area, making Superior the largest landholder in the Greenvale region. (Fig. 1).

<sup>1</sup> Refer ASX announcements dated 23 April 2024, 29 January 2024, 11 December 2023, 6 November 2023, 16 October 2023, 2 June 2022.

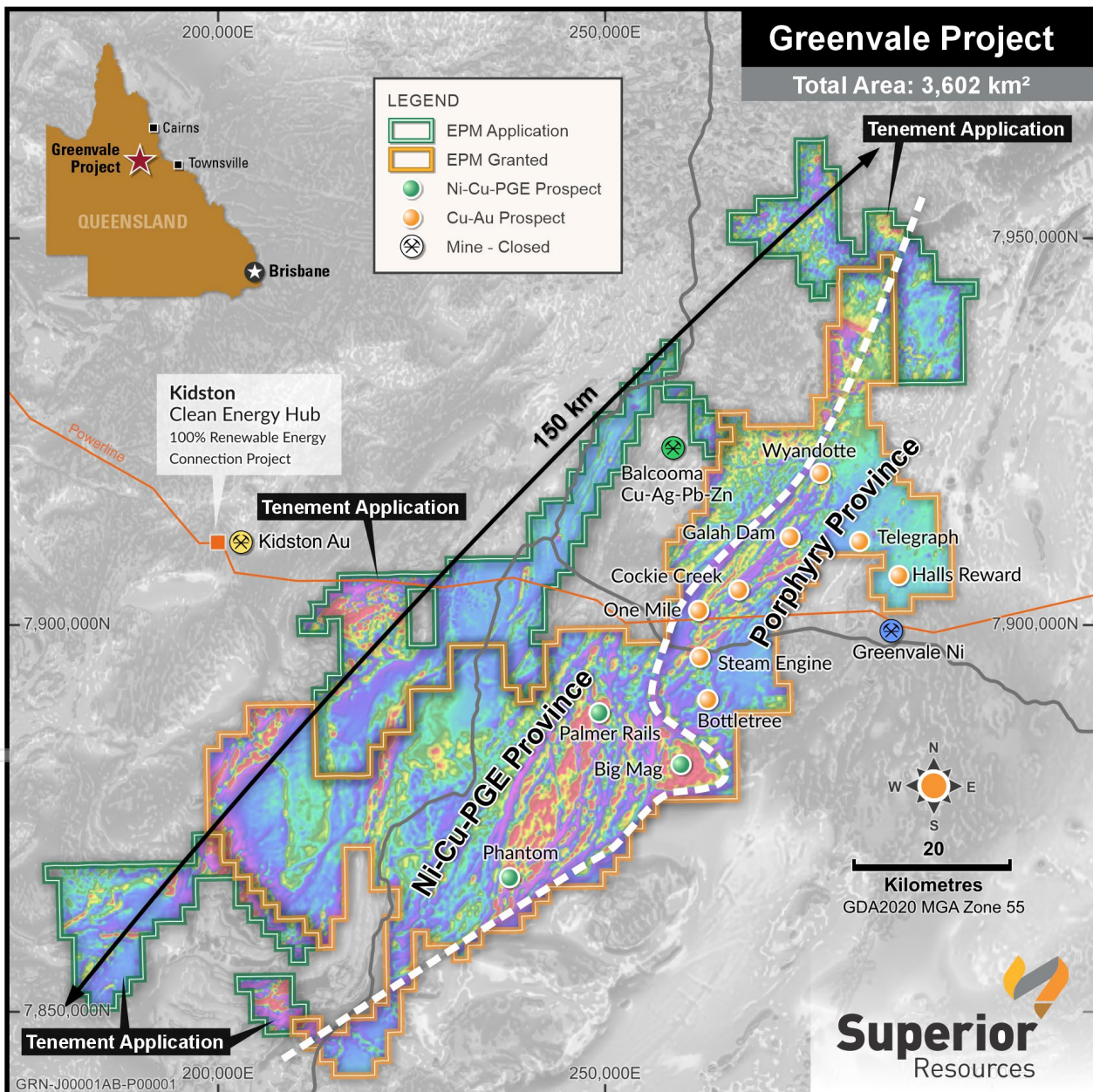
<sup>2</sup> Refer ASX announcement dated 17 February 2025.

The Greenvale Project has developed to be a **proven district-scale opportunity for large deposit copper, gold, nickel and PGEs**, with multiple deposit styles recognised across the expanded footprint.

Discoveries to date include:

- **Porphyry Cu-Au systems** at Bottletree and Cockie Creek, with drilling confirming broad copper-gold intersections across hundreds of metres.
- **High-grade VMS Cu-Au** at Hall's Reward, with intercepts of **4m @ 8.8% Cu** including **2.4m @ 13.5% Cu**.<sup>[2]</sup>
- **Voisey's Bay style Ni-Cu-PGE potential**, with Anglo American's historical work identifying highly prospective electrical conductors that remain untested due to access constraints at the time.<sup>[3]</sup>

Importantly, the new ground lies in an emerging mineral province, with Gold Road Resources (ASX: GOR) and AngloGold Ashanti both recently acquiring significant neighbouring exploration positions.



**Figure 1.** Greenvale Project regional magnetics with new EPMA's and key prospects within porphyry Cu-Au and Ni-Cu-PGE domains.

<sup>3</sup> Refer ASX announcement dated 16 March 2022.

**Superior's Managing Director, Peter Hwang commented:** *"The addition of these four new applications is a significant milestone for Superior, positioning us as the clear dominant landholder in this highly prospective district. The expanded project area has now captured a very unique collection of highly fertile geological domains, not seen in other parts of Queensland.*

*"Our team has already demonstrated the enormous geological potential at Greenvale, with discoveries at Bottletree and Cockie Creek where drilling has returned thick copper-gold intersections, and at Hall's Reward with extremely high-grade copper. And, of course, at Steam Engine we have established a sizeable gold Mineral Resource that developed over less than one-tenth of the known strike of the mineralised structures.*

*"These new applications strengthen our pipeline considerably, giving us district-scale exposure to multiple world-class deposit styles. With extensive historical datasets already in place, we are in a position to advance new targets quickly once the ground is granted.*

*"We see Greenvale as a true company-making opportunity and look forward to systematically unlocking its copper and gold potential in what is shaping up to be a major new mineral province. In addition to developing Steam Engine, our focus will remain on building scale and defining deposits that can attract strong investor and industry interest, particularly as market sentiment for copper and gold continues to strengthen."*

## Previous Exploration

### Porphyry Cu-Au-Mo

The new applications extend across volcanic suites with strong potential for porphyry copper-gold mineralisation. Parts of the tenure are concealed beneath younger basalt flows, leaving basement targets largely untested.

Drilling at **Bottletree** and **Cockie Creek** has already confirmed broad zones of porphyry copper-gold, with highlights including <sup>[4]</sup>:

- **117m @ 0.52% Cu + 0.11g/t Au**
- **248m @ 0.28% Cu + 0.06g/t Au**
- **320m @ 0.21% Cu + 0.05g/t Au**
- **433m @ 0.13% Cu + 0.01g/t Au**
- **463m @ 0.15% Cu + 0.02g/t Au**

These intersections demonstrate the scale potential of the Greenvale porphyry systems.

### High-Grade Cu-Au (VMS Style)

The Halls Reward belt hosts Cyprus-style VMS copper, with historic drilling delivering standout grades such as <sup>[5]</sup>:

- **4.0m @ 8.8% Cu (incl. 2.4m @ 13.5% Cu)**
- **7.0m @ 3.5% Cu (incl. 1.8m @ 7.6% Cu)**

These results highlight the potential for high-grade copper zones within the district.

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<sup>4</sup> Refer ASX announcements dated 23 April 2024, 29 January 2024, 11 December 2023, 6 November 2023, 16 October 2023, 2 June 2022.

<sup>5</sup> Refer ASX announcements dated 12 February 2025 and 17 February 2025.

### ***Ni-Cu-PGE (Norilsk and Voisey's Bay Style)***

Historic exploration identified extensive Norilsk-style Ni-Cu-PGE mafic and ultramafic intrusives and airborne EM conductors prospective for world-class magmatic Ni-Cu-PGE systems<sup>[6]</sup>. Superior has subsequently identified more than 40 such intrusions over the entire province. Superior intends to revisit these targets when market conditions for nickel and PGEs improve.

### ***Uranium Potential***

Greenvale district also contains rhyolite-associated uranium occurrences. However, Queensland currently allows uranium exploration but a ban on uranium mining remains. Superior is hopeful that the new Crisafulli government considers removing the ban.

### **Next Steps**

Superior has commenced historical data compilation and targeting. On grant of the new tenements, initial work will focus on:

- Reconnaissance and geochemical sampling over porphyry and VMS copper targets.
- Application of porphyry vectoring tools (alteration, geochemical, structural, and geophysical analysis).
- New geophysical surveys (magnetics, IP, gravity) to refine porphyry targets.
- Review and ground-truthing of historic nickel sulphide anomalies when market sentiment improves.

**Approved for release by the Board of Directors**

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<sup>6</sup> Refer ASX announcement dated 16 March 2022.

## About Superior

Superior Resources Limited (ASX:SPQ) is an Australian public company exploring for high-grade copper-gold-silver, large copper-gold porphyries, nickel-copper-cobalt-PGE, lead-zinc-silver and gold deposits in northern Queensland, which have the potential to return maximum value growth for shareholders. The Company is focused on multiple Tier-1 equivalent exploration targets and has a dominant position within the Carpentaria Zinc Province in NW Qld and Ordovician rock belts in NE Qld considered to be equivalents of the NSW Macquarie Arc.

For more information, please visit our website at [www.superiorresources.com.au](http://www.superiorresources.com.au).

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