

01 October 2024

Diamond drilling successfully completed at K South

Highlights

- Diamond drilling successfully completed with multiple targets tested at the KSB Project, Finland.
- The program consisted of 18 diamond holes for a total of 2,197m across four areas including K8, K9, K10 and K12.
- Samples submitted to the lab for testing with initial results expected in early November.
- Follow up downhole electromagnetic survey to commence in mid-October.
- Summer field activities are ongoing, inclusive of lithological and structural mapping and boulder/rock chip sampling.

Latitude 66 Limited, ACN 115 768 986 (ASX: LAT) ("Lat66" or "the Company") is pleased to provide an update on exploration activities at the Kuusamo Schist Belt Project ("KSB Project" or "the Project") in Finland.

On ground field activities are in full swing at K South with resource definition drilling completed at K8 and K9. Results will be used to determine whether a maiden JORC Mineral Resource estimate can be calculated for each of the K9 and K8 Prospects and incorporated into the existing global resource base of **7.2MT @ 2.7g/t Au & 0.08% Co for 650,000oz Au and 5,840t of Co¹**

In addition, follow-up exploration testing including 4 diamond holes at K10 and K12 Prospects has been completed.

Latitude 66's Managing Director, Grant Coyle, commented:

"We are excited to announce the successful completion of our diamond drilling program at the KSB Project in Finland, where we tested multiple targets across 18 holes for 2,197 meters. We are now awaiting initial assay results expected in early November."

"Our summer field activities, including prospecting and sampling at both the KSB and PSB Projects are continuing, and we look forward to commencing our follow-up downhole electromagnetic survey in mid-October, which will enhance our understanding of the project's potential."

¹ Previously reported by ASX:DCX on the 26/4/2024 "Prospectus"

K South Diamond Drilling

Across the four prospect areas, nine diamond holes were completed at K8 for 940.3m, five diamond holes for 724.5m at K9, two diamond holes for 221.8m at K10 and two diamond holes for 310.8m at K12 (**Figure 1**). In total eighteen diamond holes were completed for 2,197.4m with samples submitted to MSALABS in Canada. Initial assay results are expected in early November.

The program is focussed on previously reported significant intersections and targeting criteria, across multiple prospect areas.

Previous intercepts include:

K8 Prospect

- 19m @ 6.0g/t Au, 0.04% Co from 97.5m (M461184R305)²
- 10.3m @ 4.8g/t Au, 0.04% Co from 89.8m (L66K8DD002)⁴
- 9.3m @ 4.3g/t Au, 0.03% Co from 23.9m (L66K8DD003)⁴
- 6.5m @ 8.1g/t Au from 45.1m (SAY003)²

K9 Prospect

- 22.4m @ 2.40g/t Au, 0.07% Co and 0.16% Cu from 44m (L66K9DD010)³
- 13.45m @ 6.25g/t Au & 0.18% Co from 21.1m (L66K9DD008)⁴
- 13.8m @ 3.56g/t Au & 0.04% Co from 62.7m (L66K9DD008)⁴
- 50.15m @ 0.45% Co from 124.75m (L66K9DD001)⁴

K10 Prospect

- 4.8m @ 4.1g/t Au, 0.12% Co from 322.7m (L66K10DD005)⁴

K12 Prospect

- Coincident VTEM and FLEM conductivity anomaly⁴

² Previously reported by ASX:LAT on the 14/8/2024 "High-grade gold in historical drilling K8 Prospect Finland"

³ Previously reported by ASX:LAT on the 8/7/2024 "High-grade gold intercept returned from KSB Project drilling"

⁴ Previously reported by ASX:DCX on the 26/4/2024 "Prospectus"

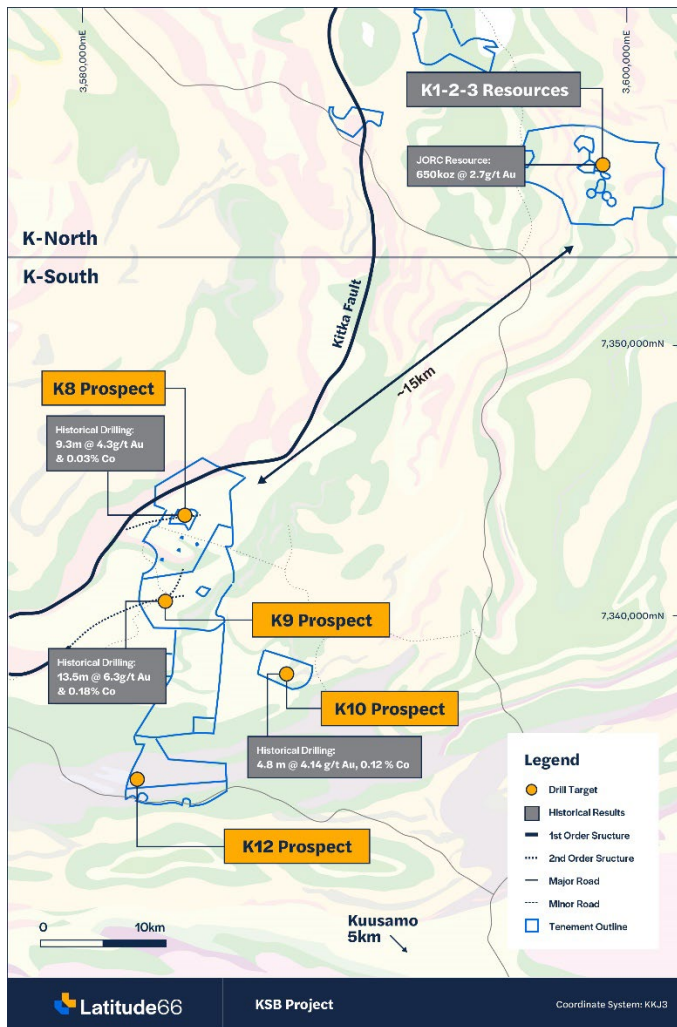


Figure 1: KSB Project tenement areas (incl. K-South and K-North)



Figure 2: Drilling at K9 Prospect, KSB Project

Next Steps

A number of diamond holes at K9 and K8 have been identified as being amenable to DHEM with a geophysics crew engaged to complete the planned activities in mid-October. Results from this program will be used in the next phase of drill planning. In addition to the drilling activities, field crews have been taking advantage of the summer period by completing lithological and structural mapping and rock-chip/boulder sampling.



Figure 3: KSB Project location map

- Ends -

This announcement has been authorised for release by the Board of Latitude 66 Limited.

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KSB Project - JORC Mineral Resource Statement

Deposit	Category	Tonnage (kt)	Au (g/t)	Co (%)	Au (oz)	Co (t)
K1	Indicated	4,600	2.9	0.10	430,000	4,400
	Inferred	1,200	2.1	0.05	80,000	570
	SUB-TOTAL	5,800	2.7	0.09	510,000	5,010
K2	Indicated	960	3.2	0.05	100,000	500
	Inferred	90	1.7	0.05	5,000	50
	SUB-TOTAL	1,050	3.1	0.05	105,000	550
K3	Indicated	340	2.2	0.06	24,000	210
	Inferred	120	2.0	0.06	8,000	70
	SUB-TOTAL	450	2.2	0.06	32,000	280
GRAND TOTAL		7,300	2.7	0.08	650,000	5,840

About Latitude 66

Latitude 66 is a Finnish and Australian based company, focusing on the exploration and development of gold and critical minerals. The Company's primary focus lies in the Kuusamo Schist Belt Project (KSB Project) situated in Northern Finland. This flagship project boasts a substantial high-grade gold-cobalt mineral resource, with over 85% categorised as Indicated, totalling 650,000 ounces of gold at 2.7 grams per tonne (g/t) and 5,800 tonnes of cobalt at 0.08%. The information in this announcement that relates to mineral resources estimates for the K1-3 projects are extracted from the Company's previous announcement on 26 April 2024 titled "Prospectus". The Company confirms that it is not aware of any new information or data that materially affects the information included in this previous market announcement and the Company confirms that all material assumptions and technical parameters underpinning the mineral resources estimates continue to apply and have not materially changed.

Beyond the KSB, Latitude 66 is conducting regional exploration activities in Finland at the highly prospective Peräpohja Schist Belts (PSB), Kainuu Schist Belts (Kainuu) and Central Lapland Greenstone Belt (Kola and Kolari).

Latitude 66 holds a 17.5% free-carried interest in Carnaby Resources' Greater Duchess Project, strategically located in the Mt Isa Copper district in Australia. Furthermore, Latitude 66 is actively engaged in the exploration of two promising gold projects in Western Australia: the Sylvania and Edjudina Projects.

Forward Looking Statements

The forward-looking statements in this announcement are based on the Company's current expectations about future events. They are, however, subject to known and unknown risks, uncertainties and assumptions, many of which are outside the control of the Company and its Directors, which could cause actual results, performance or achievements to differ materially from future results, performance or achievements expressed or implied by the forward-looking statements.

Competent Person's Statement

The information in this announcement that relates to Exploration Results is based on and fairly represents information and supporting documentation compiled by Mr Toby Wellman, a competent person who is a Member of The Australasian Institute of Mining and Metallurgy (MAusIMM). Mr Wellman has sufficient experience that is relevant to the style 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 (the "JORC Code"). Mr Wellman is the Technical Director of Latitude 66 Limited and consents to the inclusion in this announcement of the Exploration Results in the form and context in which they appear.