

5,000m drill program commences at Pilbara Gold Project

Initial RC drilling underway at the exciting Fuego prospect (Croydon Project); Mt York to follow

Highlights

- 2020 exploration program advancing rapidly with Mt Magnet Drilling commencing the planned 5,000m drilling program at the large Fuego gold target (Croydon Project).
- Reverse Circulation (RC) rig aiming to complete approximately 12 holes to depths of up to 270m to provide an initial test of this extensive gold anomaly.
- Sub-audio magnetics (SAM) survey in progress at Fuego, with up to 238 line kilometres planned over the next three weeks at the Fuego and Tierra prospects.
- Drill pad preparation to commence at the Mt York Project in early September, with RC drilling scheduled to commence immediately after the Fuego program.
- Results received from the recently completed first-pass ultra-fine soil sampling program at the Kangan Project, with interpretation and targeting ongoing.
- Exploration camp relocated to the Fuego prospect, with 12 personnel currently on site (including Mt Magnet drilling personnel).



Figure 1: Mt Magnet Reverse Circulation (RC) drill rig operating at the Fuego prospect, Croydon Project.

Kairos' Executive Chairman, Terry Topping, said: "Our 2020 exploration campaign across the Pilbara Gold Project has now stepped up a gear with drilling underway, which is a really exciting development for our team and for our shareholders. Due to logistical considerations including timing of heritage clearances and drill pad preparation, we have commenced the program at the exciting Fuego target first rather than Mt York, as previously advised.

"This means we get to test this exciting greenfields target first-up in the program, which is a really exciting development. We are aiming to drill around 12 holes using Mt Magnet Drilling's rig, with initial wide-spaced lines of reconnaissance drilling planned to depths up to 270m. We will remain extremely flexible in our approach, depending on how the program evolves. Pleasingly, we also now have a SAM survey crew on site with a very large survey now underway across the Fuego prospect before moving on to the Tierra prospect.

"Drill pad preparation at the Mt York Project will begin early next month and the Mt Magnet rig will relocate from Fuego to Mt York as soon as the current program is completed, to drill extensions of the Mt York, Iron Stirrup and Old Faithful deposits. In total, we expect to drill 5,000m across the two project areas."

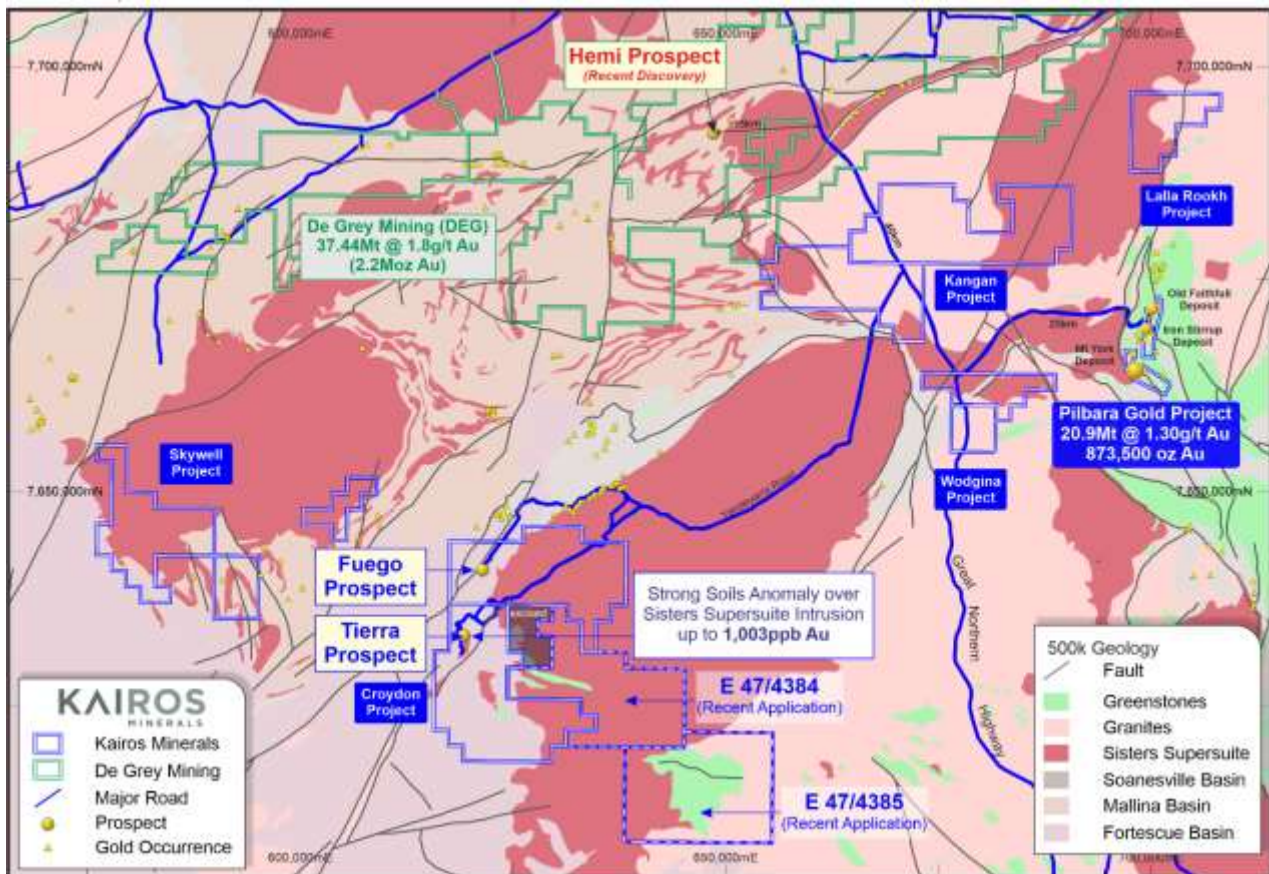


Figure 2: Pilbara Gold Project, WA.

Kairos Minerals Ltd (ASX: KAI; "Kairos" or "the Company") is pleased to advise that a major program of Reverse Circulation (RC) drilling has commenced at its 100%-owned **Pilbara Gold Project in WA** as its 2020 exploration program continues to gather momentum.

The program, comprising 5,000m of RC drilling in total, has commenced at the large Fuego gold target (located on the Croydon Project), with the initial reconnaissance program expected to be completed there over the next 2-3 weeks while drill pad preparations are completed at the Mt York Project. The rig will then relocate to Mt York to complete the balance of the program.

In progress now are activities including a major sub-audio magnetic survey across the Fuego prospect, as well as soil and rock chip sampling and mapping.

Results from the recently completed airborne magnetic and radiometric surveys and soil sampling at the Kangan Project have been received with interpretation and target-generation ongoing.

RC Drilling Program

Kairos' drilling contractor, Mt Magnet drilling company, has commenced a 5,000m Reverse Circulation (RC) drill program over the Croydon and Mt York Projects.

A rig is currently operating on site at Fuego, with a total of up to 12 widely spaced reconnaissance holes planned to be drilled in this first-pass program.



Figure 3: Reverse Circulation (RC) drill rig operating at the Fuego prospect, Croydon Project.

There is no previous drilling at this prospect, and the targets are supported by strong geochemical anomalies coincident with magnetic features defined by Kairos' recent airborne geophysical survey.

The RC program at Mt York is now anticipated to commence in mid-September, and will commence at the Mt York deposit to test the north-west extension of the mineralisation. Only one historical hole has been drilled over this target area within Kairos' ground.

Pilbara Minerals holds the adjacent ground to the west and recently conducted an RC drilling program to test gold mineralisation similar to Kairos' Mt York deposit (see PLS: ASX announcement 28 April 2020).

Hole MYRC007 returned an intercept of 16m @ 2.43 g/t Au from 16m. This hole is located 1.2km from Kairos' Mt York Mineral Resources, within the same geological setting.

The RC drilling program is designed to test targets at Mt York, Iron Stirrup and Old Faithful deposits, as well as the Green Creek and Zakanaka prospects.

Sub-Audio Magnetics (SAM) Survey

A ground-based geophysical program has commenced to support drill targeting at the Fuego and Tierra prospects (Croydon Project) as well as the Old Faithful and Iron Stirrup deposits (Mt York Project).

The survey is in progress over the Fuego prospect, with 168 line kilometres planned to cover over 5km strike of the geochemical anomaly. After completing the Fuego survey, the geophysical crew will move to the Tierra prospect to complete another 70 line kilometres of SAM survey. At the Mt York Project, two areas are planned to be covered by the SAM survey comprising a total of 21 line kilometres.



Figure 4: SAM Geophysical Survey in progress at the Fuego prospect, Croydon Project.

Soil Geochemistry Program

Last month, Kairos completed a first-pass regional soil geochemical program for the Kangan Project. Soil sampling was conducted on 200m and 400m line spacing by 80m and 160m sample intervals covering intrusion-related gold mineralisation targets and structural targets defined by mapping and by the preliminary data from the airborne geophysical survey.

A total of 1,587 samples were collected, with 1,071 samples sent to Labwest in Perth for the CSIRO's ultrafine analysis. The remaining 516 samples were collected over structural and geological targets utilizing traditional -80 mesh sieving and were sent to Intertek Laboratory in Perth for gold and multi-element analysis.

Results from this survey have been received with interpretation and targeting ongoing.

During August, a total of 690 soil samples were also collected at the Skywell Project and sent to Labwest in Perth for Ultrafine analysis. This program covered targets defined by the preliminary results of the recently conducted airborne geophysical survey, as well as targets generated from the reconnaissance field mapping conducted in June, where rock chip samples returned grades of up to 12.9g/t Au.

Approximately 1,200 soil samples were planned to be collected at the Skywell Project, covering three distinct areas over the margins of the Sister Supersuite intrusions and Mallina Basin sediments; however, only two of the three areas were sampled due to some weather-related delays (unseasonal rain).

The soil-sampling crew is now supporting the drilling and geophysical programs at the Fuego prospect and is expected to return to Skywell Project area once the two surveys have been completed at the Croydon Project.

Next Steps

- Ongoing RC drilling at the Fuego prospect.
- Interpretation of the assay results from the soil sampling program conducted at the Kangan Project.
- Finalise Skywell soil sampling program.
- Interpretation and target generation for the airborne geophysical survey.
- Complete the SAM survey at the Croydon Project.
- RC drilling at the Mt York Project.

Released with the authority of the Board.

About Kairos Minerals

Kairos Minerals (ASX: KAI) is a diversified West Australian-based exploration company which is focused on the exploration and development of two key project hubs located in WA's premier mining districts.

The Company's 100%-owned Pilbara Gold-Project has its central "hub" located ~100km south of Port Hedland in the world-class Pilgangoora district immediately adjacent to the major lithium-tantalum projects owned by Pilbara Minerals and Altura Mining, which are both currently in production.

Since acquiring the project in early 2016, Kairos has established a JORC Indicated 8.56Mt at 1.3 g/t for 366,000oz and Inferred 12.36Mt at 1.28 g/t for 507,000oz for a Total Mineral Resource of 20.93Mt @ 1.3g/t Au for 873,000oz (ASX announcement, 4 March 2020). The Project encompasses the historical Lynas Find gold project, which produced over 125,000oz of gold between 1994 and 1998.

Kairos' 100%-owned Roe Hills Project, located 120km east of Kalgoorlie in WA's Eastern Goldfields, comprises an extensive tenement portfolio where the Company's recent exploration work has confirmed the potential for significant discoveries of high-grade gold, nickel and cobalt mineralisation. Kairos' tenure adjoins the emerging Lake Roe gold discovery, owned by Breaker Resources (ASX: BRB).

In the Pilbara, Kairos also holds 1,547 square kilometres of tenure (granted and applications) which is highly prospective for gold discoveries.

Kairos has been well recognised for its industry leading technical team that includes its Chairman Terry Topping (Taipan Resources NL, Cauldron Energy Ltd), Technical Director Neil Hutchison (Poseidon Nickel, Jubilee Mines) and consulting specialists.

For further information, please contact:**Investors:**

Mr Terry Topping
Executive Chairman
Kairos Minerals Limited

Media:

Nicholas Read/Paul Armstrong
Read Corporate
Ph: 08 9388 1474

COMPETENT PERSON STATEMENT:

Competent Person: The information in this report that relates to Exploration Results or Mineral Resources is based on information compiled and reviewed by Mr Terry Topping, who is a Director of Kairos Minerals Ltd and who is also a Member of AusIMM. Mr Topping has sufficient experience that is relevant to the style of mineralisation and type of deposits 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.' (the JORC Code 2012). Mr Topping has consented to the inclusion in the report of the matters based on their information in the form and context in which it appears.

The Australian Securities Exchange has not reviewed and does not accept responsibility for the accuracy or adequacy of this release.