



**Focused on
Delivering the
Next Multi-Million Ounce
Gold Resource in
Australia**

Share Talk Investor Evening - 27 September 2019



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About ECR Minerals

- ECR is a mineral exploration and development company listed on AIM (**AIM:ECR**), with a **strategic objective to deliver the next multi-million ounce gold resource** in Australia.
- ECR's wholly owned Australian subsidiary Mercator Gold Australia ("MGA") has **100% ownership of five gold exploration projects in Central Victoria, Australia**. Project areas can contain multiple gold prospects.
- Exploration activities in Victoria are being led by Dr Rodney Boucher, who has extensive geological experience in the state, including many years of involvement with Perseverance Corporation, the original developers of the **highly successful Fosterville gold mine**.
- ECR has moved into another world-class Australian gold province, the **Yilgarn in Western Australia**, by applying for **nine licences hosting untested gravity-magnetic anomalies representative of potential greenstone-hosted gold trends**. This 1600sqkm package is referred to as the Windidda project.
- ECR has legacy interests in the Philippines (Danglay gold project) and Argentina (SLM gold project).

Company Structure, Financials & Shareholders

- ECR Minerals plc AIM: ECR
- Shares in issue 450,930,783
- Mkt. cap. £3.5m*
- Strong cash position to Q2 2020
- Major warrants outstanding
192,857,143 @ 1.125p and 55,356,391 @ 2p
- Management is focused on maintaining a sound share structure and will continue to finance ECR in ways that benefit existing shareholders

* At market close on 26 Sep 2019

** At 20 Sep 2019

Major Shareholder	% of shares held**
JIM Nominees Ltd	20.44
Interactive Investor Serv. Nom. Ltd	10.81
Share Nominees Ltd	7.45
Barclays Direct Investing Nom. Ltd	6.78
Hargreaves Lansdown (Nominees) Ltd	5.67
Interactive Investor Services Nom. Ltd	5.27
HSDL Nominees Ltd	5.02
HSDL Nominees Ltd <Maxi>	4.13



Near Term Activities & Newsflow - Windidda and Creswick

➤ Windidda Gold Project (Western Australia)

ECR's wholly owned Australian subsidiary MGA has submitted applications over **1,600 sq. km of the Yilgarn Craton.**

All nine exploration licences advertised and **application process progressing.**

Unsolicited **farm-in proposal received**; indicative of anticipated high level of industry interest in the project.

➤ Creswick Gold Project (Victoria)

113 samples from whole-of-bag testing sent for assay with **results pending.**

Partial assay results released on 27 August 2019 demonstrated a **substantial increase in gold grade** on average in respect of the 17 samples tested.

Subject to the results of the whole-of-bag testing, and assuming positive exploration outcomes, ECR is seeking to rapidly advance Creswick toward a **JORC compliant resource.**



Near Term Activities & Newsflow - Blue Moon, HR3, Henry's Hill, Timor

- **Blue Moon Gold Prospect, Bailieston Project**

Q1 2019 drilling confirmed **new gold discovery**; access negotiations underway to allow access to the west, where mineralisation may intensify.

- **HR3 Area, Bailieston Project**

3D model almost completed and expected to generate numerous **high-priority drilling targets**.

- **Henry's Hill Prospect, Avoca Project**

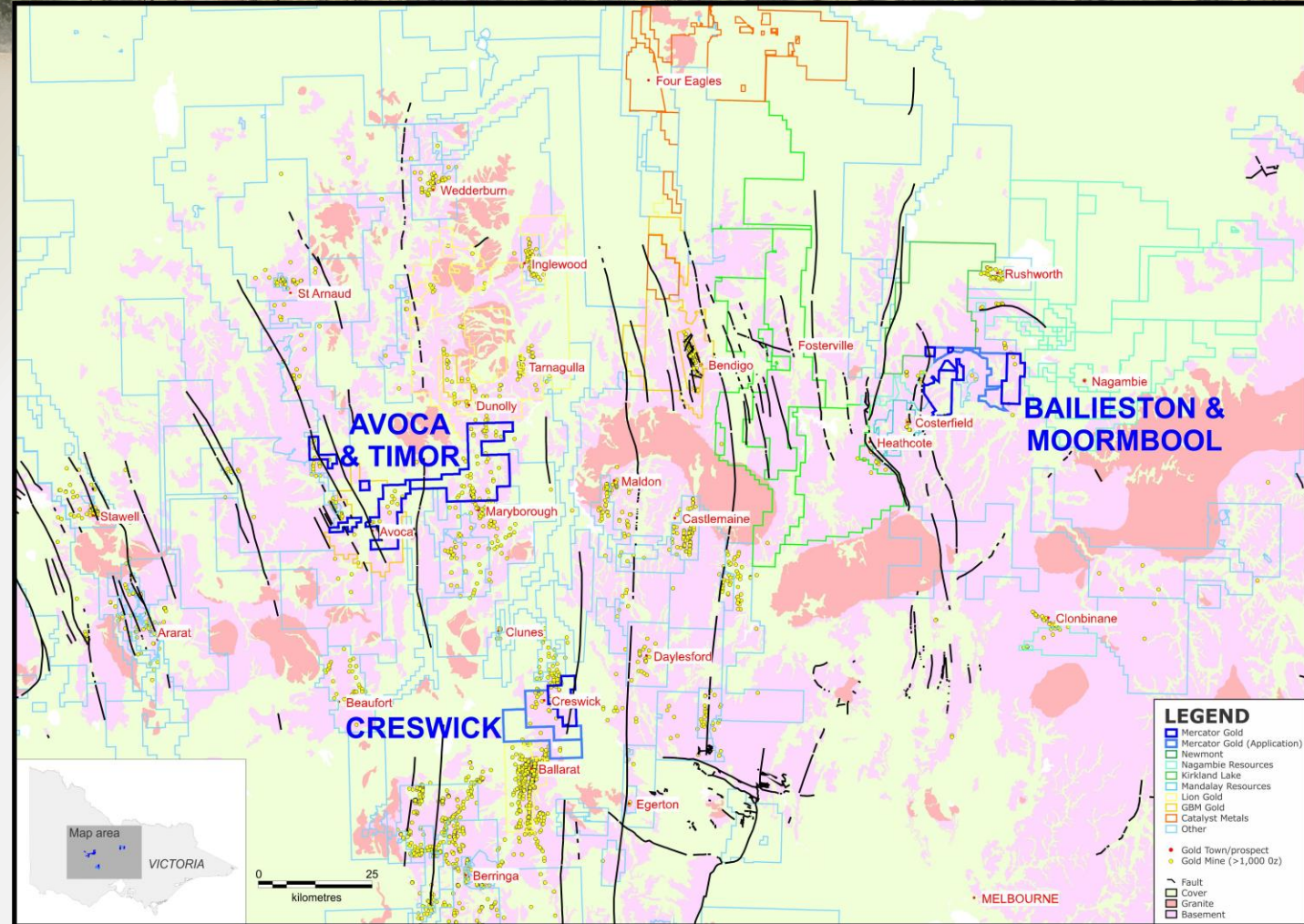
Geological mapping and soil geochemistry completed with 200 samples collected; geochemical analysis of samples to be undertaken shortly.

- **Timor Gold Project**

Prospectivity confirmed by recent rock-chip sampling, and potential drilling programme under review.

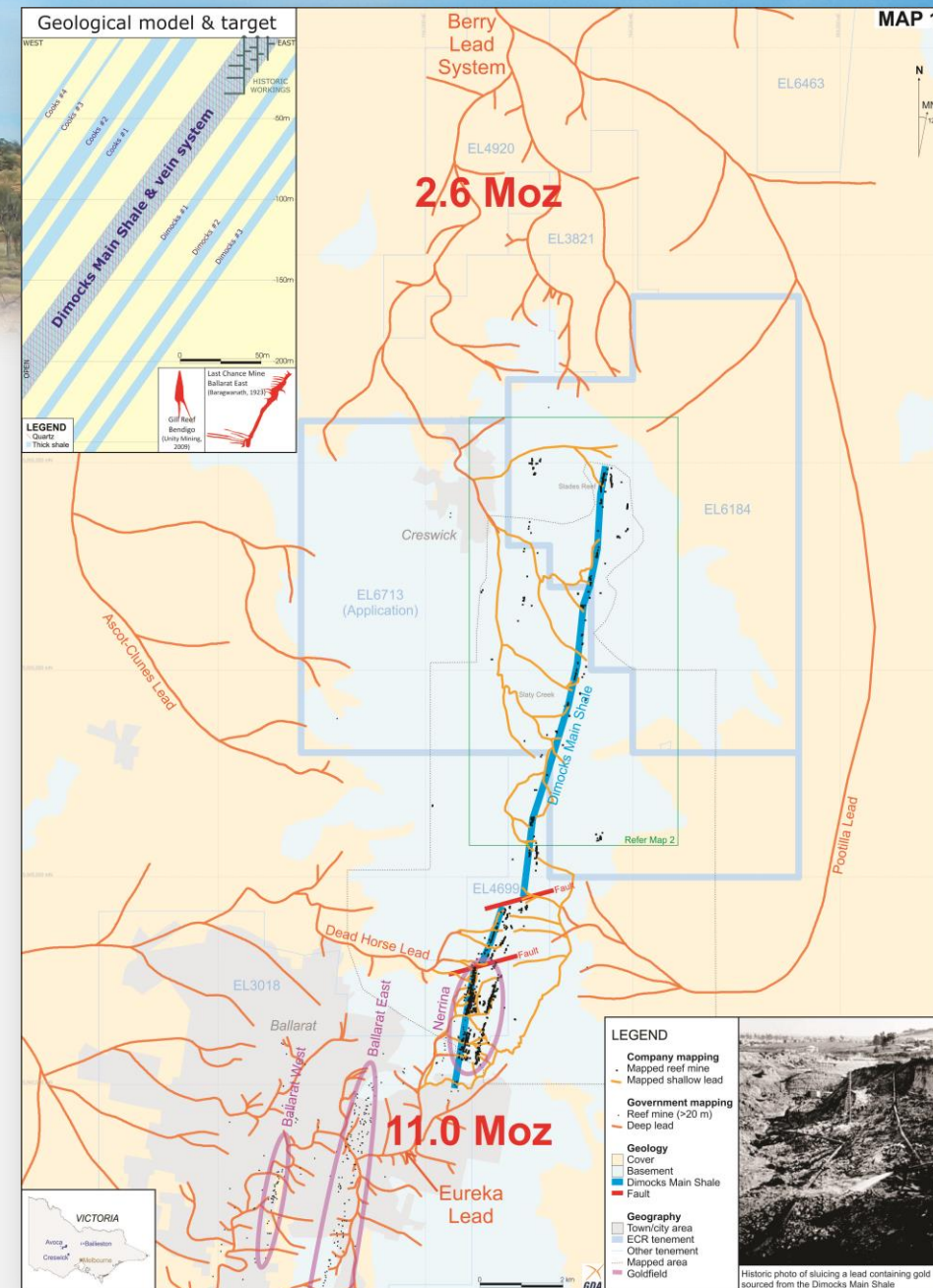
Victoria Gold Projects

- Within the Bailieston and Moormbool project areas 20 targets have been identified, including **5 high priority targets**.
- Within the Avoca and Timor project areas 27 targets have been identified, including **10 high priority targets**.
- Within the Creswick project area a large gold system has been identified in the **Dimocks Main Shale** gold targets.
- **Victoria** hosts the **2nd largest gold endowment in Australia** with total recorded production of more than **85 million ounces**.



The Creswick Gold Project - Victoria

- The Creswick project is considered **highly prospective** for gold mineralisation hosted within the **Dimocks Main Shale** ("DMS"), which extends over a 15km trend, approximately 7km of which is covered by MGA's licenses.
- In the project area, the DMS is approximately 25m wide containing gold-bearing quartz veins. Almost 1500 shallow primary workings have been mapped from North Ballarat to Spring Hill (Creswick).
- The DMS is the hard-rock source of much alluvial and deep lead gold, with **historical alluvial and deep lead production** estimated at up to **2.5 million ounces** in the Creswick/Berry lead system, and up to **11 million ounces** in the entire Ballarat area, of which the DMS is a significant contributor.
- MGA completed **1687m** of reverse circulation (RC) drilling at Creswick in **February 2019** for 17 holes.



Creswick - Whole-of-Bag Testing for Nuggety Gold

- **Gold mineralisation identified in all 17 of MGA's 2019 reverse circulation (RC) drill holes**; grades in 9 holes ranged from 0.6 g/t gold to **63.03 g/t gold**.
- Drilling by MGA to date has **only tested 300m of the 7km strike length** of the Dimocks Main Shale within the project area.
- Mineralisation confirmed as nuggety, which can lead to understated or overstated assays; accordingly, a process of **whole-of-bag gravity and electrostatic concentration testing** on the RC drill samples has now been **completed**.
- A trial on a sample bag from hole CSR011 found a nugget in the previously untested portion of the sample, and overall the sample demonstrated gold of **11.8 g/t** from whole-of-bag gravity concentration, some **528%** greater than the 1.88 g/t gold returned from assay of the initial 2kg sub-sample.

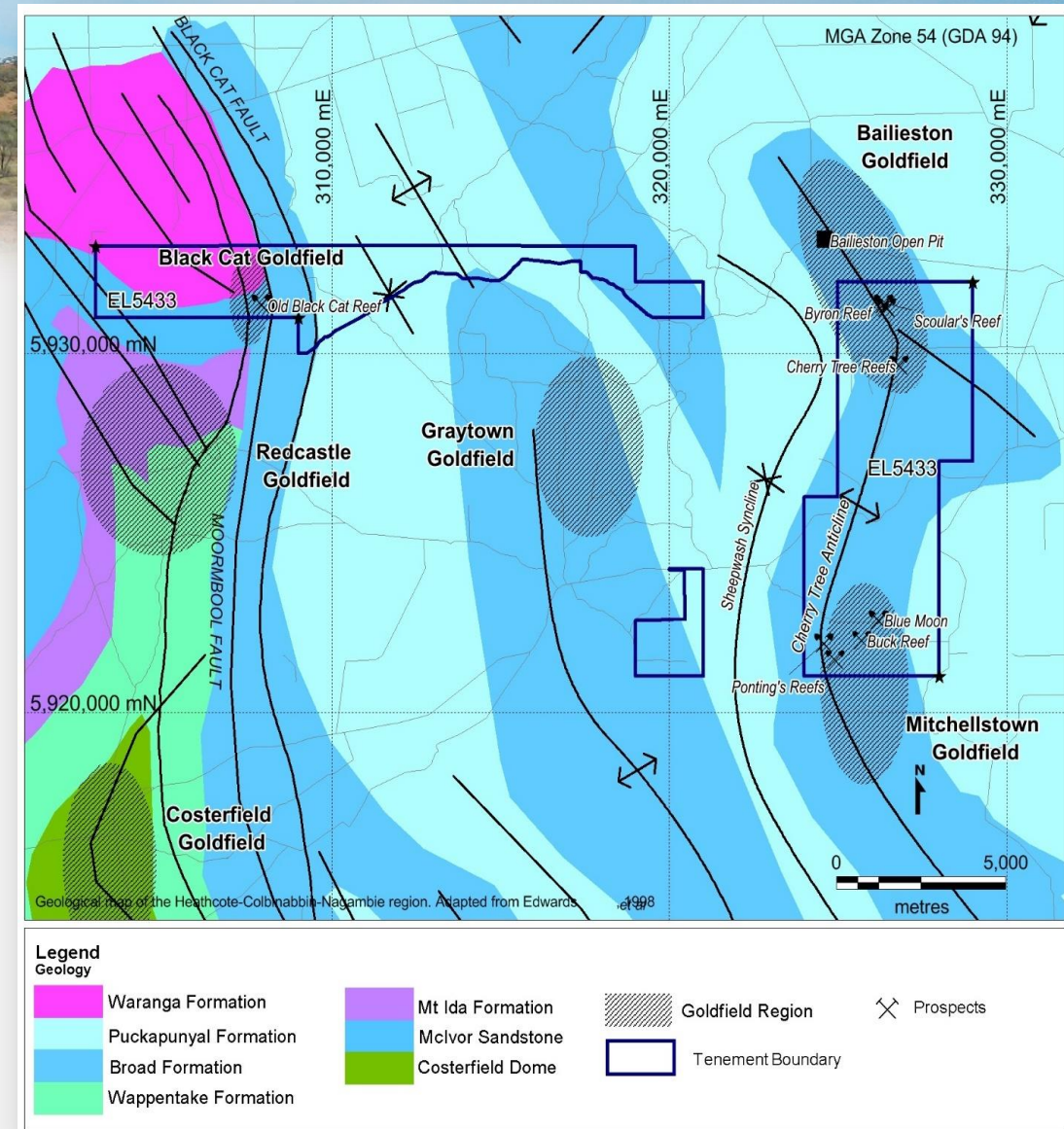


Above: nugget recovered in whole-of-bag gravity concentration trial.



The Bailieston Gold Project - Victoria

- The **Bailieston gold project** is targeting epizonal or epithermal gold mineralisation of the Melbourne Zone.
- Located approximately 50km to the west is **Kirkland Lake Gold's Fosterville gold mine** which is currently the largest producing gold mine in Victoria (350,000 ounces of gold produced in 2018).
- The **Costerfield gold-antimony mine** is located approximately 30km to the south west and produced 21,000 ounces of gold in 2018, plus antimony.
- **Key gold prospects** include **Blue Moon**, **Black Cat** and the **HR3 area**.

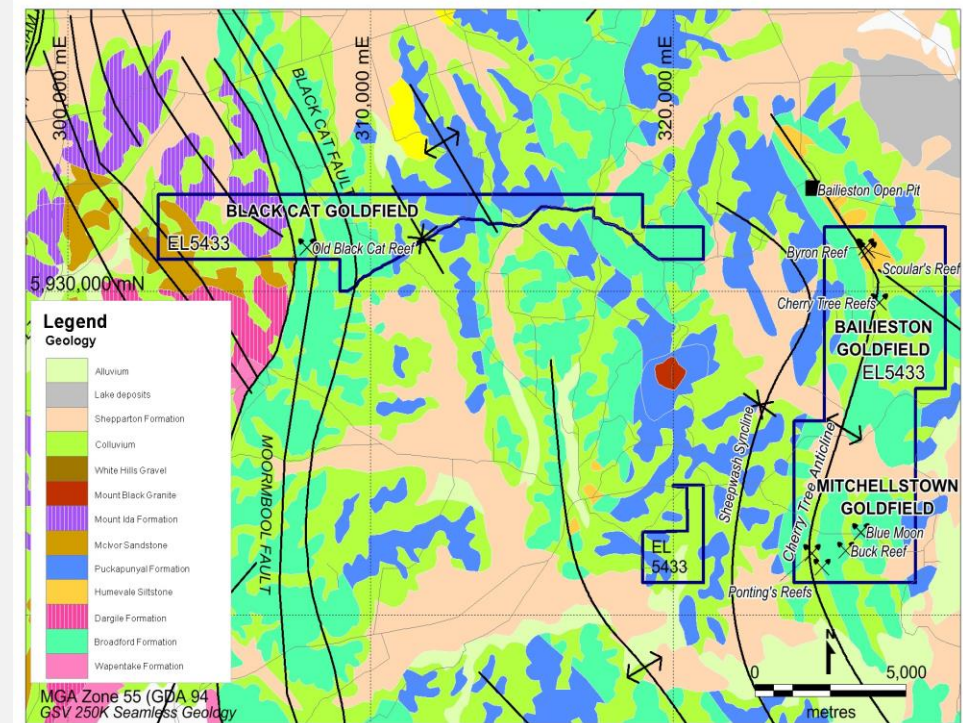


NB: tenement outline on map above is not current.



HR3 Area - Bailieston

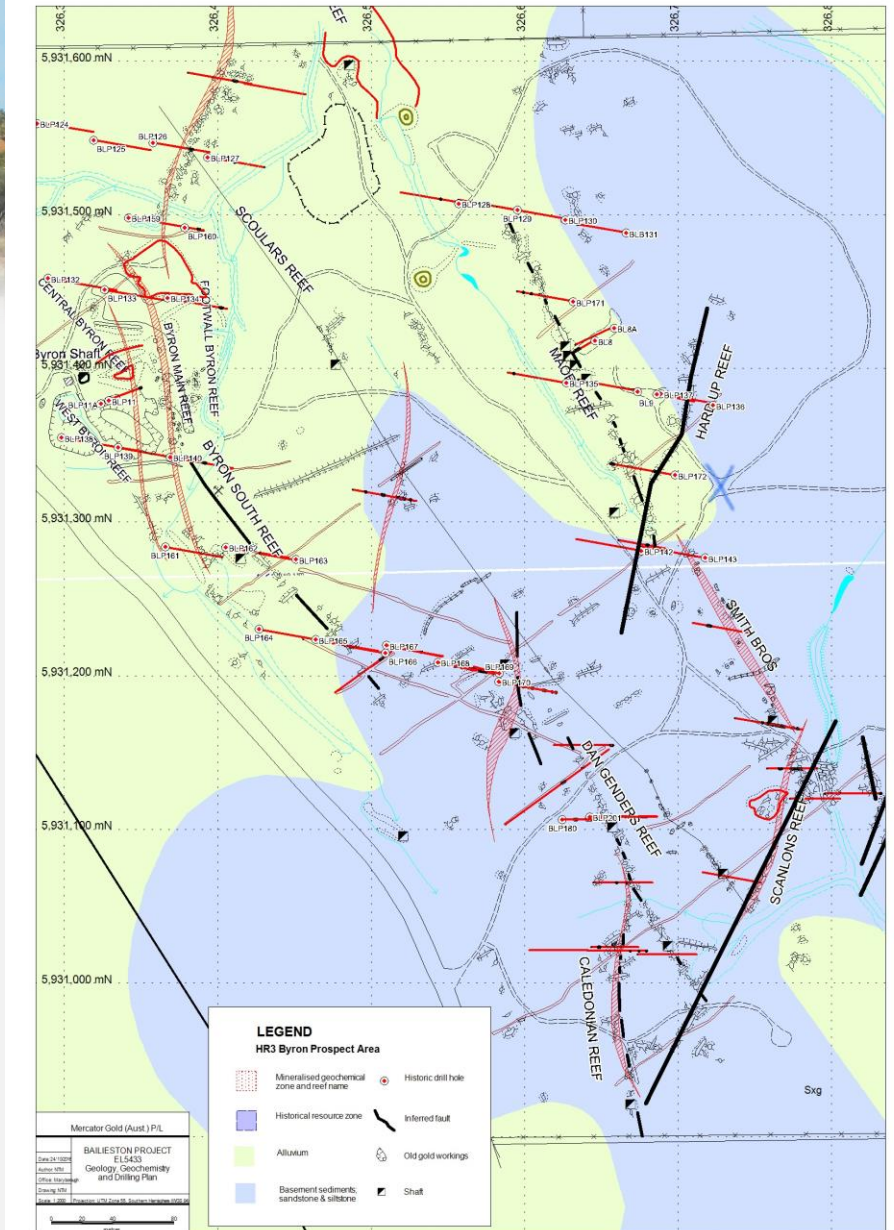
- Encompasses the Byron, Maori, Scoulars, Dan Genders, Hard Up and Scanlon's reefs, and forms the largest area of historical workings (**700m by 300m**) within the Bailieston project area.
- MGA's exploration objective at HR3 will be to investigate the possibility of **integrating the various reefs at depth** to arrive at a meaningful modern-day resource.
- There is a gap in the historical workings from the HR3 area for approximately 800m to Cherry Tree to the south and for approximately 400m to the tenement boundary to the north, and there is potential in these zones for **undiscovered mineralisation, particularly at depth**.



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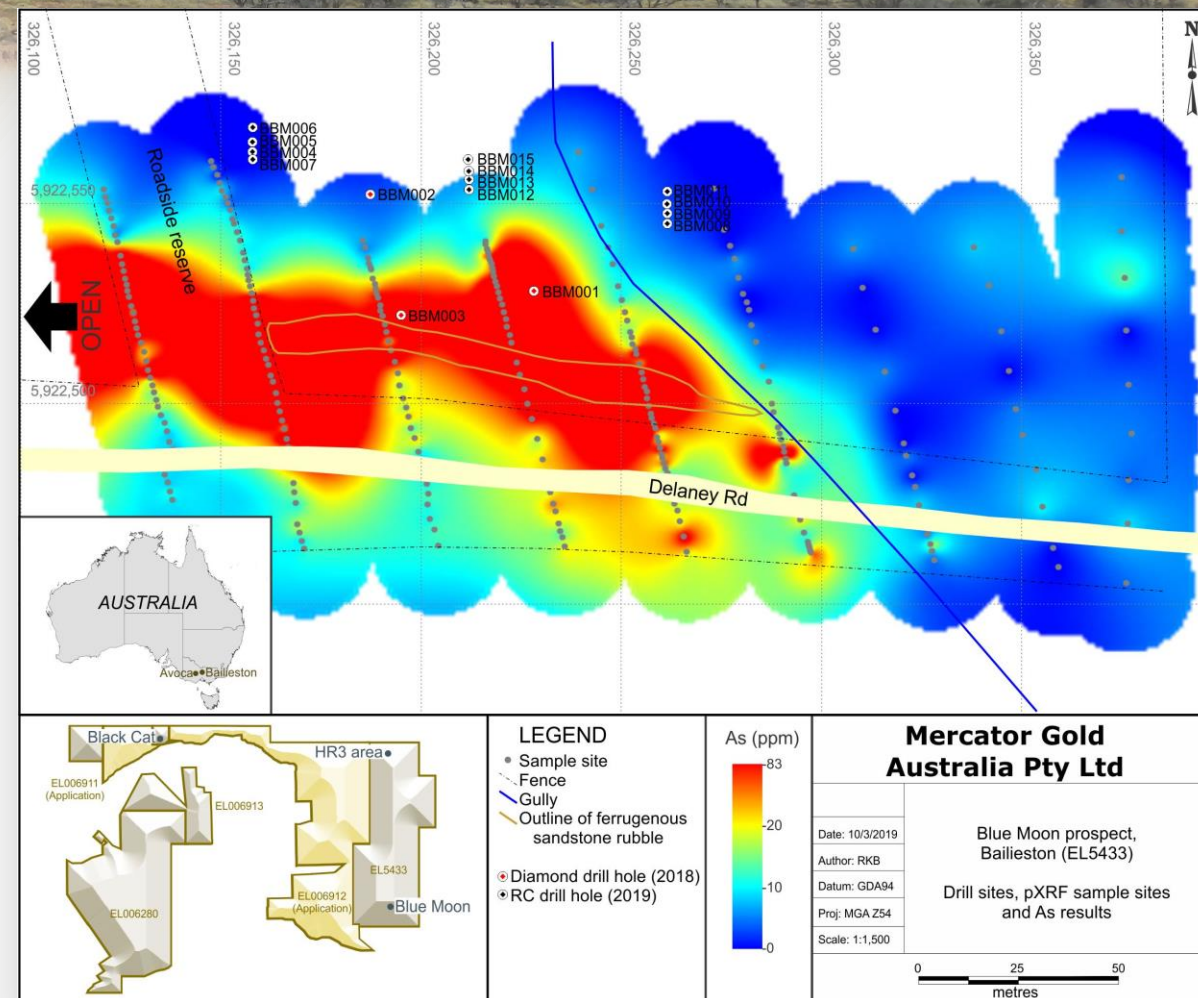
HR3 Byron Prospect - Bailieston

- Contains the historic Byron Mine which records show produced 4,416oz from 8,698t mined at an implied grade of **15.5g/t gold**.
- Intercepts from historical drilling include: **3m at 13.8g/t gold**, **2m at 17.6g/t** and **3m at 14.74g/t**.
- **151 surface rock chip samples were taken in 2018** to help assess targets in the Byron and Cherry Tree areas, which contain numerous northwest trending quartz reefs, including the Byron, Scoulars and Maori reefs.
- Of these samples, 51 returned gold grades in excess of 0.5 g/t, with the highest being **67.4 g/t**.



Blue Moon Deposit - Bailieston

- Identified as a **high priority prospect** in early 2018 when Dr Rodney Boucher completed a review of all available data on MGA's exploration licences, complemented by geological mapping and geochemical surveys in selected areas.
- An **arsenic anomalous zone up to 40m wide and more than 200m long** was identified at Blue Moon, and previous work showed anomalism over a further 150m to the west.
- Previous rock chip samples included results of **12.1, 10.1 and 7.0 g/t gold**, and previous soil surveys identified gold to **5.0 g/t**.



Blue Moon - Q1 2019 RC Drilling - New Gold Discovery

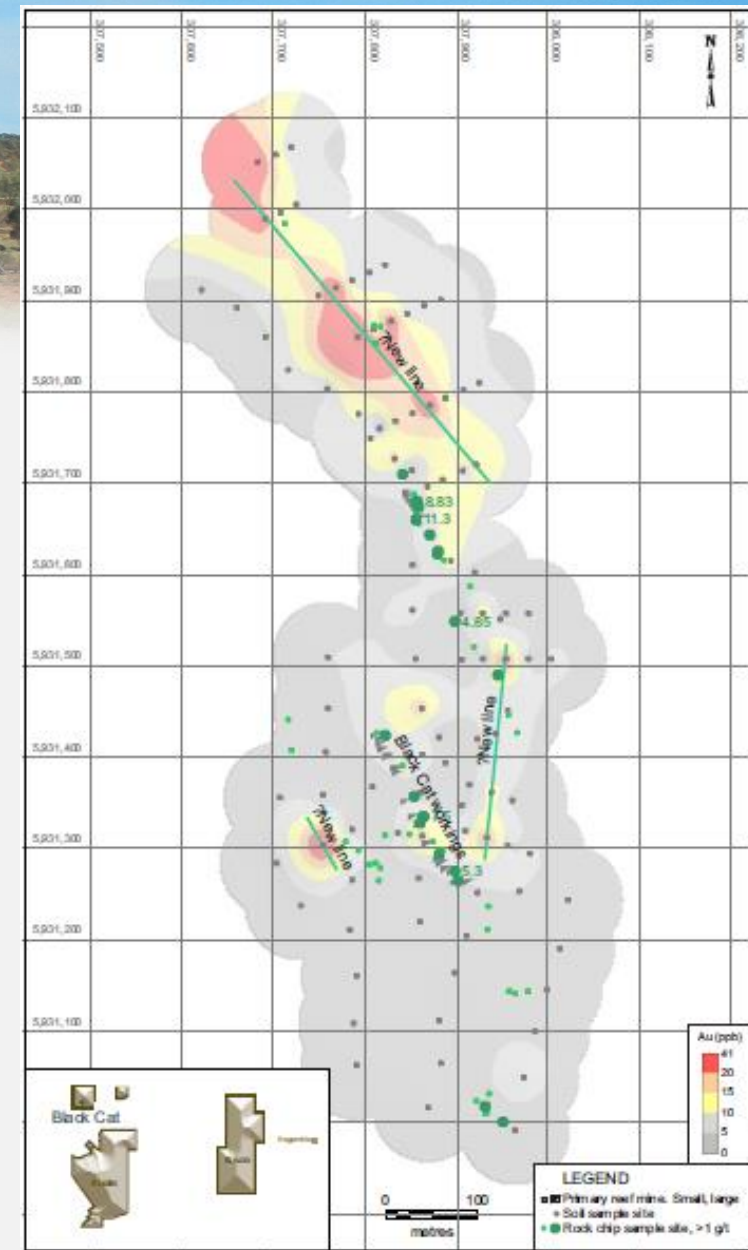


- Assay results from the 2019 RC holes have returned both **high grade intervals** and **significant widths** of anomalous gold grades.
- As well as **2m at 17.87 g/t gold** from 57m down hole in BBM007, within a zone of **15m at 3.81 g/t gold** from 51m, an intersection of **3m at 3.88 g/t gold** from 170m downhole within a zone of **11m at 2.42 g/t gold** from 169m in hole BBM006 has been announced.
- These results indicate that a **high grade zone** exists within the target sandstone host.
- Results also indicate the host sandstone is **thicker and the gold grades significantly higher on the westerly section**; further exploration will therefore seek to follow the system to the west, subject to agreeing access with landowners.



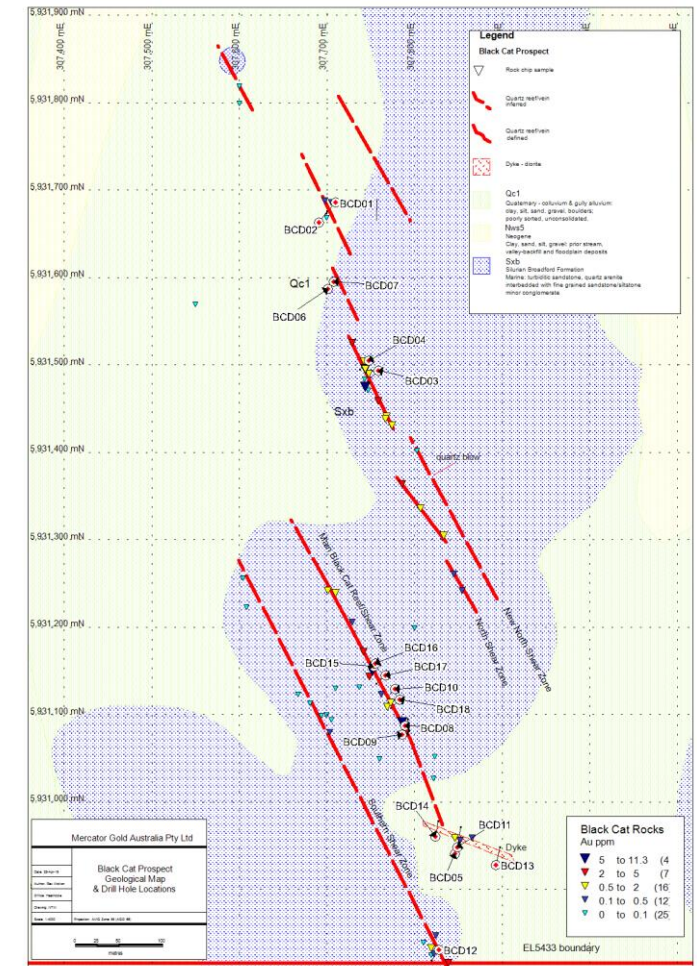
Black Cat Prospect - Bailieston

- Black Cat is among the numerous **high priority** targets identified in the Bailieston project area by the geophysical interpretation and targeting study completed for MGA in late 2017, and is located immediately south of ground applied for in late 2018 by a subsidiary of **Newmont Mining**.
- **Successful reconnaissance rotary air blast (RAB) drilling in Q1 2019** targeted numerous quartz reefs at Black Cat with a total of 18 shallow holes for 485 metres of drilling.
- Each of the three main quartz reefs that were worked historically at Black Cat is around 350m long. Drill holes were located along each of these reefs, especially near the most significant workings.



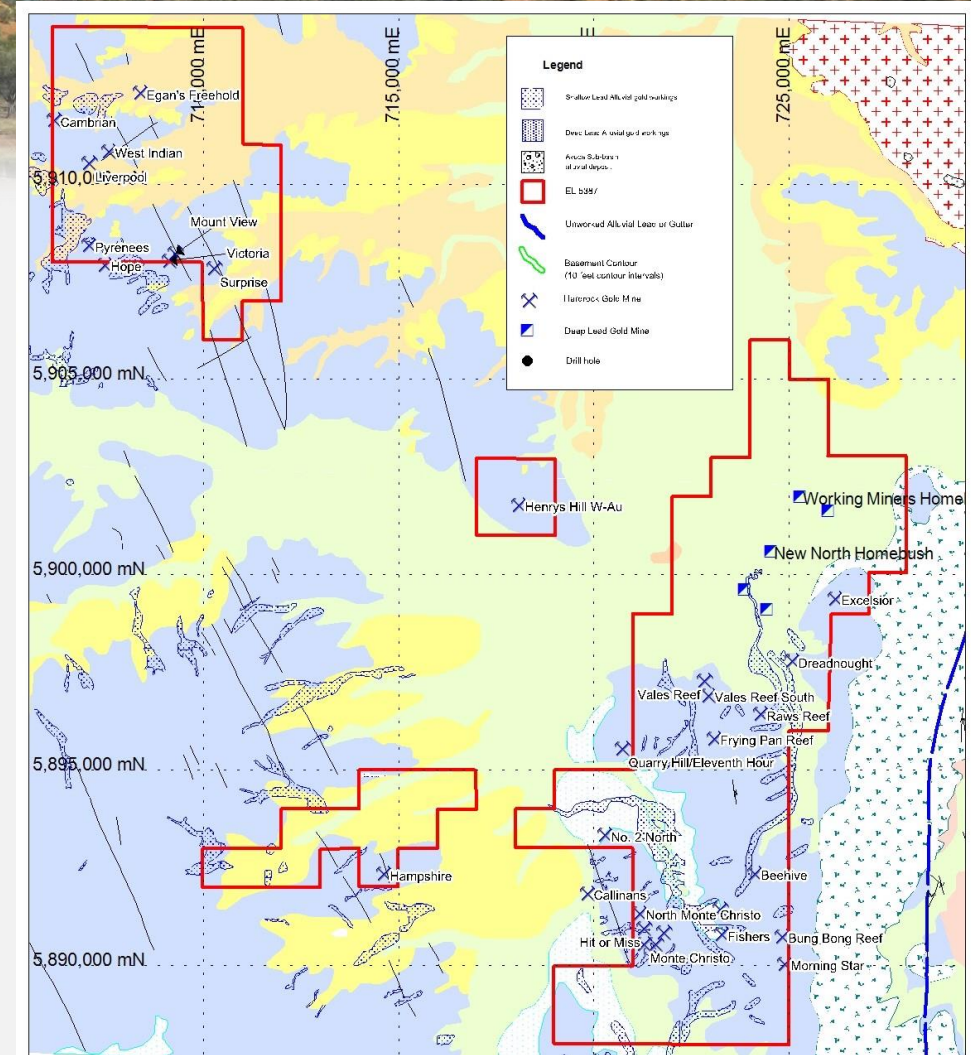
Black Cat Prospect - Q1 2019 RAB Drilling Results

- Significant intersections included **7m at 1.76 g/t gold** from 35 metres in BCD11, **3m at 4.26 g/t gold** from 16m in BCD18, and **1m at 6.3 g/t gold** from 18 metres in BCD03.
- The potential for **supergene enriched** mineralisation at the water table interface and for **deeper primary mineralisation** could be investigated by drilling deeper holes.
- Further exploration could also focus on **larger nearby structures** that may be the **source of the gold mineralisation**, such as the Moormbool and Black Cat faults.
- **Important geological insights** were generated by the RAB programme, which will guide further exploration at Black Cat and other prospects in the Bailieston gold project area.



Avoca Gold Project - Victoria

- The Avoca project (EL5387) is centred on mesothermal quartz vein hosted gold and related placer-style 'deep lead' gold mineralisation. There is a **considerable local history of mining** both kinds of deposit.
- ECR considers the Avoca project **highly prospective for hard rock structurally controlled gold deposits**.
- In addition, the presence of molybdenum with gold in breccia at the Surprise prospect raises the **conceptual possibility of a high tonnage porphyry deposit**.
- Noteworthy historical (1990s) drilling results from Surprise include **2m at 3.27 g/t** gold from 18m and **5m at 1.4 g/t** gold from 26m.

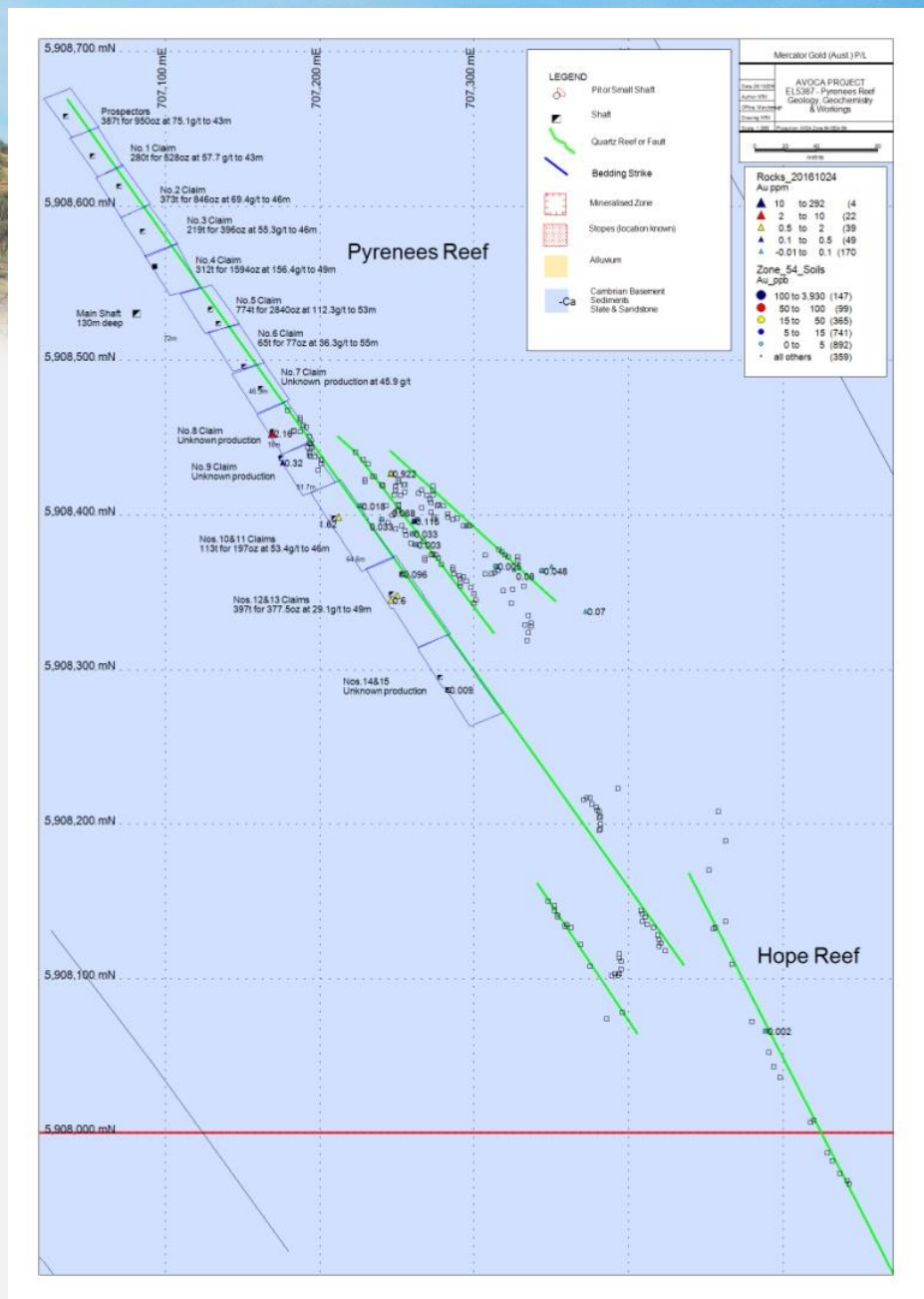


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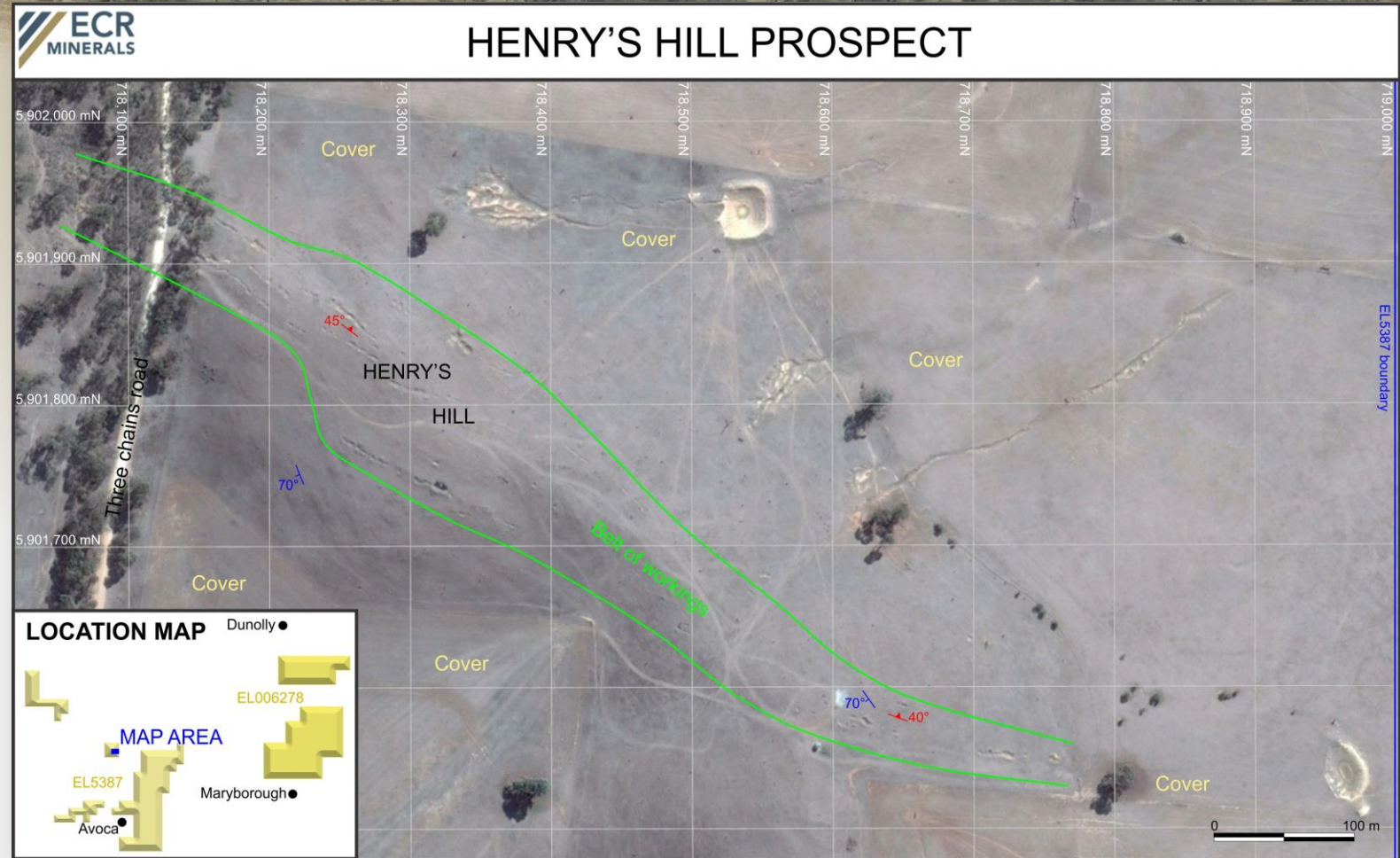
Historical Hard Rock Mines - Avoca

- Historical hard rock gold mines within the Avoca project area include the high grade:
 - **Pyrenees Reefs** - 16,199 tons mined for 16,602 ounces to 130m at an average recovered grade of **32g/t gold**, worked from 1860 to 1912;
 - **Excelsior Reef** - 13,200 tons mined for 9260 ounces to 100m at an average recovered grade of **22g/t gold**, worked from 1909 to 1915;
 - **Monte Christo Reefs** - 2795 tons mined for 937 ounces to 30m at an average recovered grade of **10.3g/t gold**, worked from 1872 to 1877.



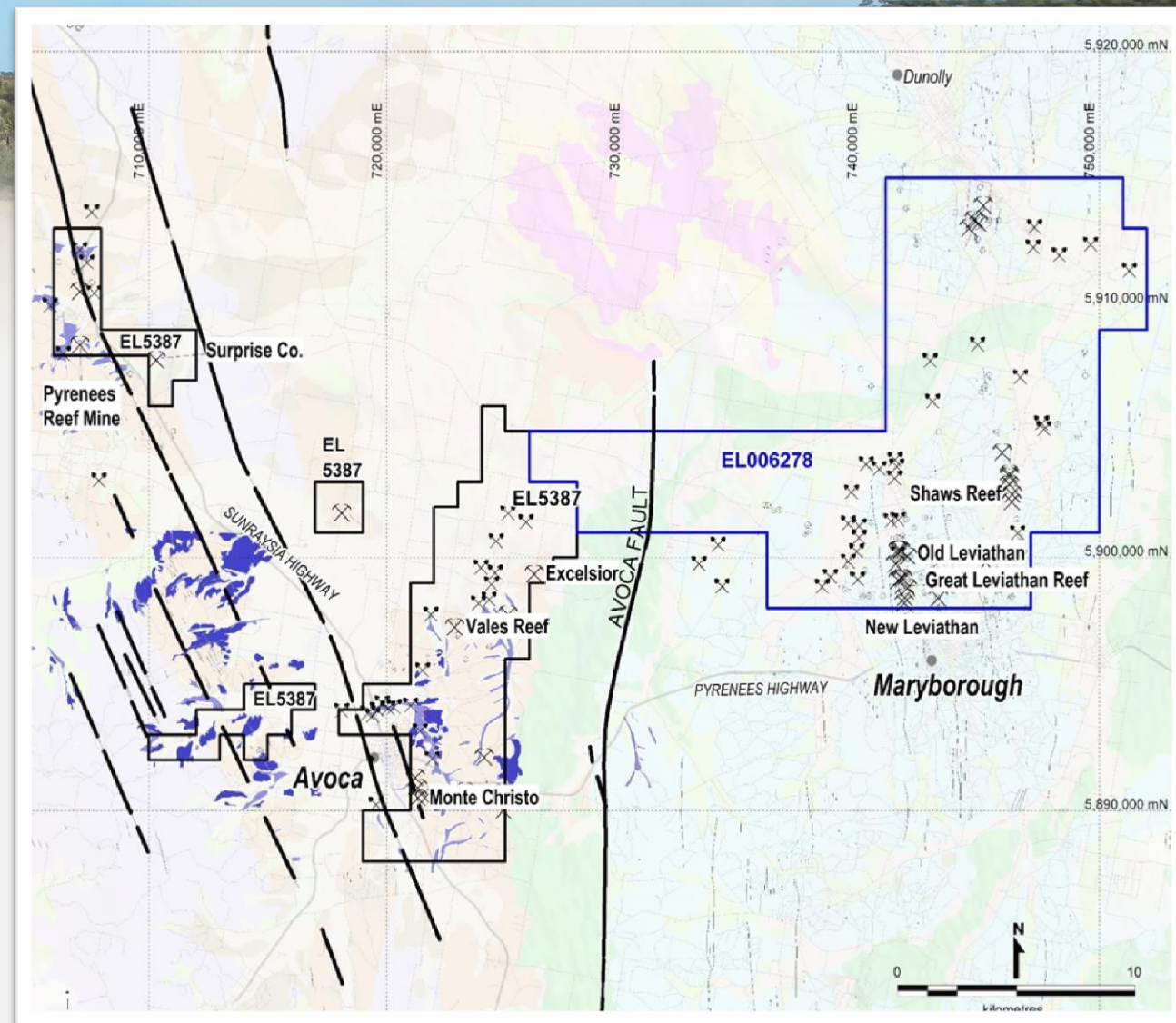
Henry's Hill Prospect, Avoca

- MGA recently completed a soil **geochemistry and field mapping** programme at the Henry's Hill prospect, where there are shallow historic workings in a zone over **800m long** and up to **100m wide**.
- Previous sampling by MGA geologists returned results of **5.1, 1.4 & 1.3 g/t gold**.



Timor Gold Project - Victoria

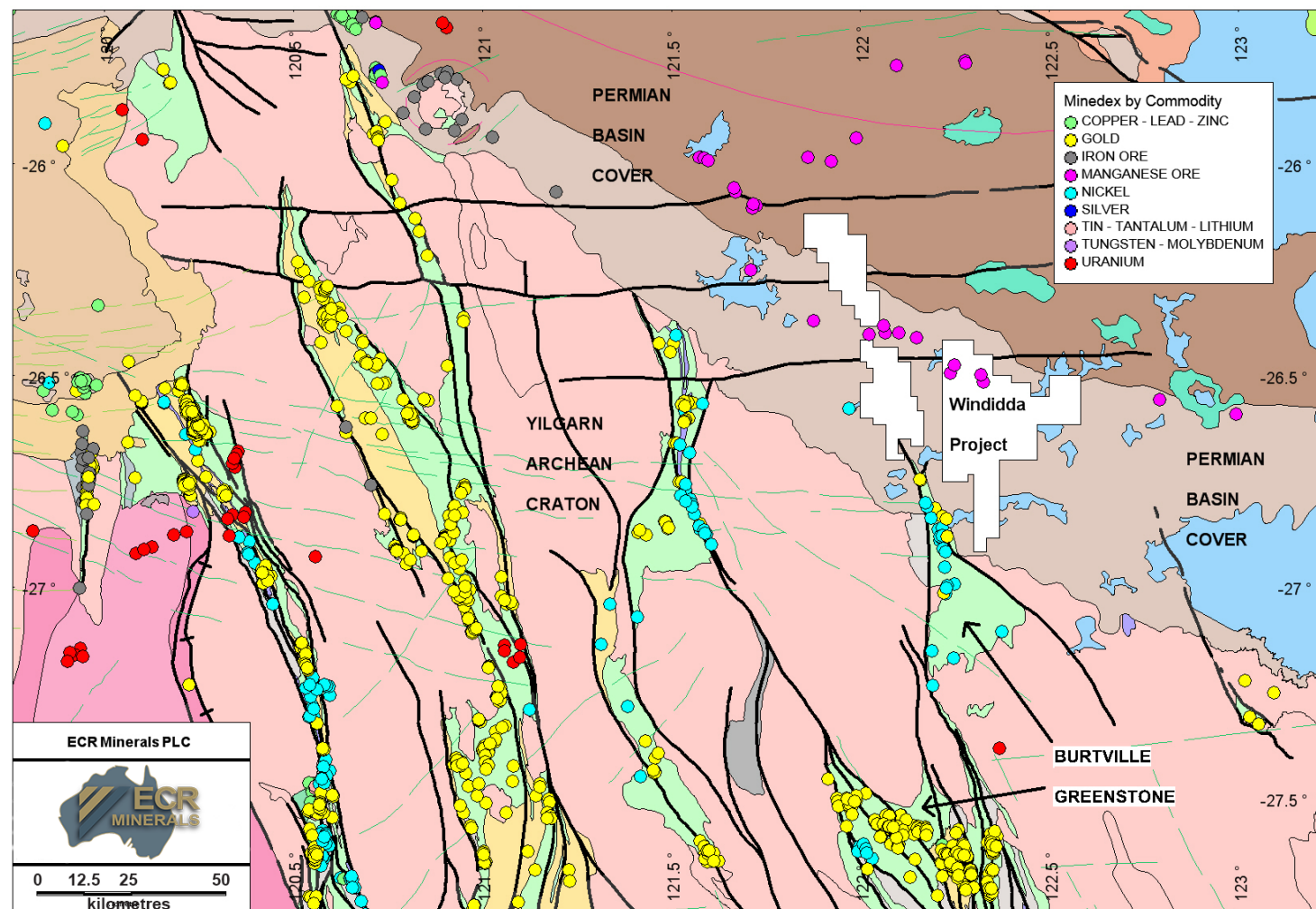
- The Timor gold project contains **numerous hard rock and alluvial gold deposits** considered to have been **significant producers**.
- These include the **Leviathan** group of mines, which are believed to have yielded in excess of 67,500 ounces from 181,000 tons, equating to a recovered grade of approximately **11.5 g/t gold**.
- **Rock-chip sampling results** announced in August 2019 included **22.6 g/t gold** from quartz vein material on the Shaw's Reef main shaft waste dump and **26.3 g/t gold** from quartz vein material on the Anglo-Saxon Reef main shaft waste dump (four samples averaged 8.12 g/t gold).



NB: tenement outline on map above is not current.

The Windidda Gold Project - WA

- Initial **strategic move** into the Yilgarn, Western Australia via applications for an under-explored portfolio of nine tenements covering approximately 1600 sq. km.
- Scale of opportunity, location and geology **align with ECR's strategic objective** of delivering the next multi-million ounce gold resource in Australia.





The Windidda Gold Project

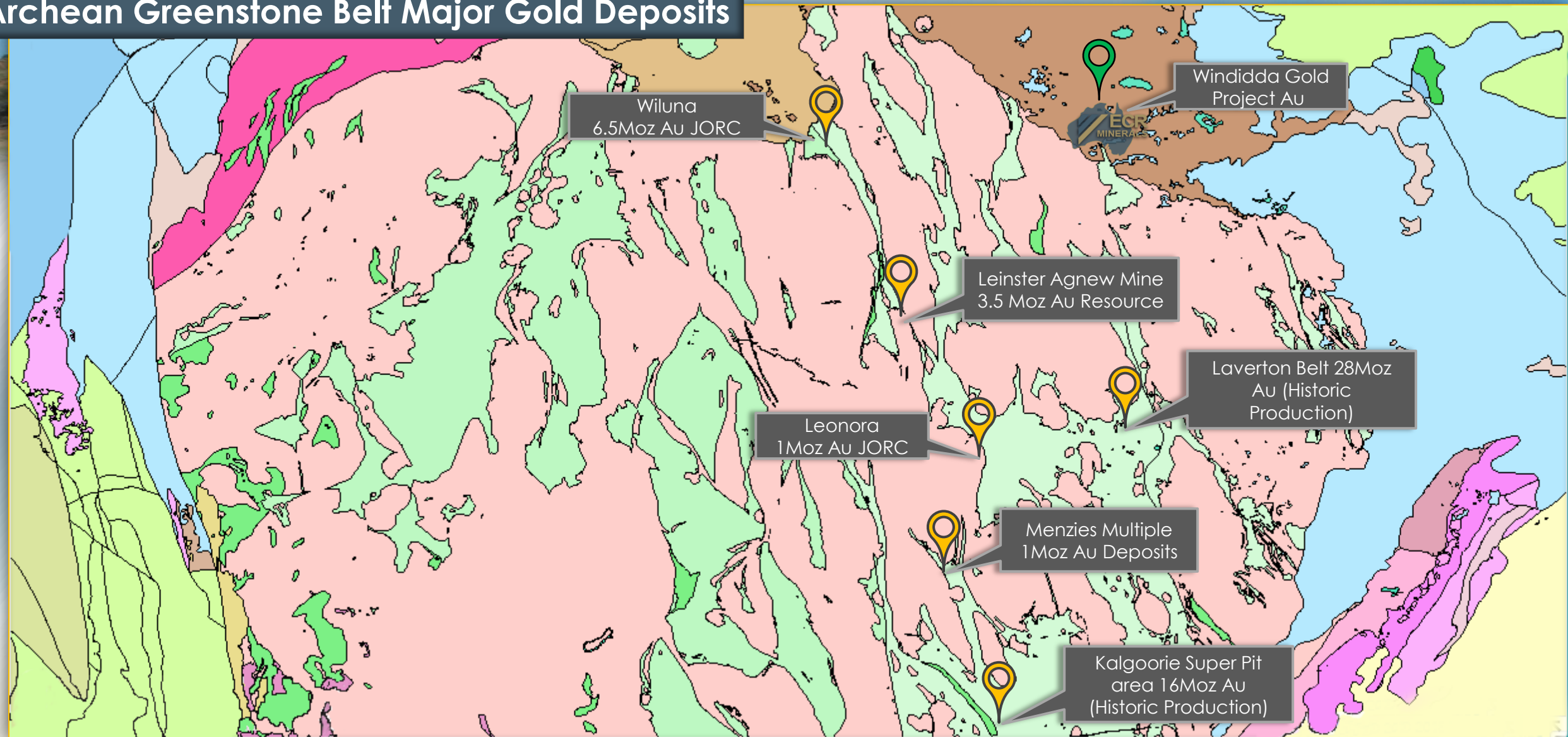
- The application areas have been identified as a **potential greenstone hosted orogenic gold** exploration opportunity with significant potential to contain Archaean greenstones buried beneath Permian cover sequences in the Canning Basin.
- Licence applications cover a significant proportion of an identified gravity-magnetic trend with **known gold prospects along trend** in outcropping greenstone to the south (outside the applications).
- Western Australia is a **world-leading operating environment** for mining companies.
- **Archean greenstones** are renowned for hosting significant gold deposits, with the Kalgoorlie Super Pit area having produced in excess of 16 million ounces as of 2014.
- ECR's **exploration concept is to use aircore drilling across gravity-magnetic anomaly targets** to enable rapid assessment of potential for gold mineralisation. It is believed the depth of cover at Windidda may be shallow, which would enable low cost initial exploration by aircore drilling.

Exploration Potential of the Yilgarn Craton



- The **Yilgarn Craton is Australia's premier mineral province**. It attracts more than half of Australia's minerals exploration expenditure, and **produces two thirds of all gold and most of the nickel** mined in Australia.
- The Yilgarn Craton is host to around **30% of the world's known gold reserves**. In addition, it hosts approximately 20% of the world's nickel reserves, 80% of the world's tantalum reserves, and considerable iron ore, copper, zinc and minor lead reserves.
- Archean greenstone belts and associated granitic rocks comprise some of the most diverse rock types on the Earth's surface and were formed during the early stages of the development of the planet.
- Archean greenstone belts in Western Australia host **major gold deposits** such as **Kalgoorlie, Kambalda, Mount Magnet, Boddington, Laverton and Wiluna**.

Archean Greenstone Belt Major Gold Deposits





Reasons to Invest in ECR Minerals

1. **100% ownership** of gold projects in a **world class mining jurisdiction**.
2. **Strategically identified gold projects** that exhibit desirable geology, location and data to suggest that they can deliver the next multi-million ounce gold resource in Australia.
3. **Dedicated and experienced board** of directors committed to delivering exceptional results for shareholders.
4. ECR has secured the technical services of an **experienced team of geologists** including Dr Rodney Boucher, a renowned expert in the Victorian goldfields.
5. **Multiple exploration activities** to deliver ongoing **newsflow**; perfect storm scenario for share price to rise with high impact news.
6. ECR is **fully funded to Q2 2020** against planned work programmes.

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