



QUARTERLY ACTIVITIES REPORT

Ending 30 September 2016



HIGHLIGHTS - The breakthrough confirmation of a porphyry system with copper-gold potential at Nankivel, and excellent visual results from an infill drilling program at the Paris silver deposit, both accelerated by a A\$5.4million completed placement and partnership funding from the South Australian Government

Corporate:

- Placement completed, raising A\$5.4million to help Investigator accelerate exploration and development.
- Investigator was a successful applicant for government drill co-funding under the 2016/17 PACE drilling incentive scheme. Investigator awarded two PACE grants totalling A\$290,000 to assist drilling of selected exploration targets:
 - Nankivel copper-gold targets near Paris silver resource.
 - Silver targets in the Thurlga JV tenement adjacent to Paris.

Paris Silver Project Development:

- Infill drill program commenced and 60% complete with excellent visual results thus far.
- Aims to upgrade 33Moz silver Mineral Resource to Indicated status ahead of prefeasibility study by mid-2017
- Drilling to be completed by early-November for resource re-estimation in early 2017.

Flow-on Copper-Gold Discovery Opportunities:

- First Nankivel drill test confirms prospective porphyry setting for large untested target area. Immediate follow up of breakthrough opportunity with further drilling and broad geophysical surveying.
- Large Maslins IOCG gravity target further upgraded by geological review of adjacent historic drillholes.

OVERVIEW AND OUTLOOK SUMMARY

Having completed a A\$5.4 million capital raising at the start of the quarter, Investigator was further bolstered by news it had been successful in its application to the South Australian Government's 2016 PACE Discovery Drilling program. The Company received two grants totalling A\$290,000 to assist in drilling for further exploration of the silver targets at the Thurlga Joint Venture, adjacent to the 33Moz Paris Silver Project and the Nankivel copper-gold target.

The new funds are being allocated about 70% to moving the Paris project forward towards Investigator becoming a silver developer and 30% to advancing or testing the larger copper-gold discovery potential that has flown on from the Paris discovery in 2011.

Infill drilling commenced at Paris in late September aimed at upgrading the silver Mineral Resource. This is the first step in moving the project to a Prefeasibility Study by mid-2017. With the drilling about 60% complete by the time of reporting, excellent results are being achieved with sampling quality and visual verification of the geological model and continuity of mineralisation.

The first drill test of the Nankivel target successfully confirmed the presence of a prospective porphyry system. This offers Investigator the first-mover opportunity to explore a large area for copper-gold targets that warrants immediate follow-up. Further shallow drilling is in progress and a broad IP geophysical survey will commence early November.

Investigator's entry into IOCG exploration is underpinned by the large gravity target "Maslins" along the refined southern extension of the Olympic Dam belt. Review of the historical drill data around the target using concepts developed in the Paris-Nankivel area showed Maslins has the potential to fill the deposit gap between the giant Olympic Dam and smaller IOCG deposits in the belt. A senior partner is being sought to drill the quality greenfields target.

Expenditure for the September Quarter comprised A\$0.52million spent on exploration and A\$0.36million spent on corporate and administration costs. The Company held A\$5.7million in cash at the end of the September 2016 Quarter.

Investigator Resources Managing Director John Anderson said **"Investigator continued to move the Paris Silver Project forward. We have worked closely with our Resource Consultant in designing the infill drilling program. About two-thirds of the RCP drilling is already completed, and two of the five diamond 'twin' holes have been drilled. Our geological model for the Paris silver deposit, the first of its kind in South Australia, is holding up well and we are encouraged by the visual consistency and extent of the host geology and mineralisation in the new holes.**

Investigator is on schedule to release an updated Mineral Resource estimate for the Paris Silver Project early in 2017. The new drill samples will also be incorporated into advanced metallurgical work forming a major part of a prefeasibility study to be completed by mid-2017.

Another exciting development in the past quarter was the confirmation of a large porphyry system with copper-gold potential at the Nankivel prospect 5km from Paris. We have predicted this type of deposit style for some time, based on our new geological concepts for the southern Gawler Craton and our knowledge from the Paris discovery. In September, our ideas were validated by the first drill hole at Nankivel intersecting a prospective intrusive porphyry down the entire 600m length of the hole. The alteration patterns and low tenor copper indicate the hole intersected the margin of large porphyry system with an area of over one kilometre diameter. This warrants immediate on-going exploration for copper-gold targets with further drilling underway and a large IP geophysical survey about to start.

This is the first significant discovery in South Australia of the porphyry copper deposit style, which accounts for most of the world's copper production, but is a style poorly represented in Australia.

We are also building another large copper gold target at Maslins at the south end of the Olympic Dam IOCG belt. Nankivel and Maslins offer Investigator the opportunity to enter another league of the mining industry," Mr Anderson added.



Figure 1: Investigator Resources - Plan of tenements in South Australia

Peterlumbo Tenement (EL5368) (IVR 100%) [Refer to Figures 1, 2, 3, 4 and 8]:

Paris Silver Project:

In late September the Company announced (Investigator ASX Release: 23 September 2016) the commencement of an infill drilling program at the Paris silver deposit. The objective of the infill program is to upgrade the 33Moz silver Mineral Resource from the current Inferred category to Indicated Mineral Resource category in preparation of a pre-feasibility study to be completed by mid-2017. The infill program comprises 6,250m of reverse-circulation percussion (“RCP”) drilling and 750m of large diameter diamond core drilling that will twin specific RCP holes, as part of the resource verification process. About 4,000m of the initial infill drill program have been drilled with 35-vertical RCP holes and two of five diamond twin holes completed to around 120m depth (Figures 2 and 3).

The visual examination of the drill samples is confirming the resource geological model is holding up well for the Paris silver deposit (Investigator ASX Release: 27 October 2016). The verified geology model was largely interpreted from the crumbly and incomplete drill samples in the past. The new drilling is revealing the true nature of the spectacular polymict breccia with a mix of fragments, including sulphide clasts in places that can produce the high silver grades. The thickness and extent of new breccia intersections is giving more certainty for the continuity of the silver host away from prior silver intersections. The two diamond core twins thus far are showing excellent visual correlation with the geology and mineralisation in the adjacent RCP holes. Assay results are expected to be available from early November through to mid-December.

The current Paris silver Mineral Resource is classified as Inferred due to the highly variable grades including localised high-grade intersections typical of this style of breccia deposit. The infill drill program was developed closely with H & S Consulting Pty Ltd ("H&SC") in-order to upgrade the category to an Indicated Mineral Resource. The revised Mineral Resource will be independently prepared by H&SC, again using the Multiple Indicator Kriging (MIK) method which is more appropriate for the complex mineralisation style of the Paris silver deposit and will be estimated and reported in accordance with the guidelines of the 2012 edition of the Australasian Code for the Reporting of Exploration Results, Minerals Resources and Ore Reserves (2012 JORC Code).

The Company is continuing to consider various development options and scenarios. These include, but are not limited to; metallurgical processing options (flotation (silver-lead concentrate) vs. flotation/leach extraction (silver doré bars)), optimal processing rates, mining contractors and modular mobile processing plants (owner operator vs. metallurgical process operator).

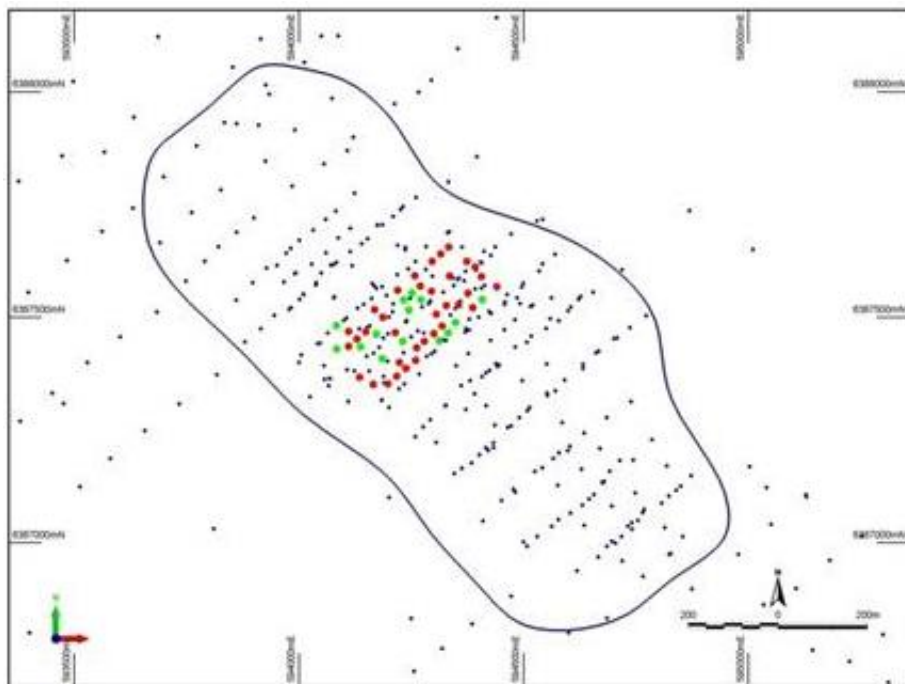


Figure 2: Plan of Paris Drilling - Summary of infill drilling program:

- Red dots - completed RCP holes.
- Green dots - RCP holes to be completed.

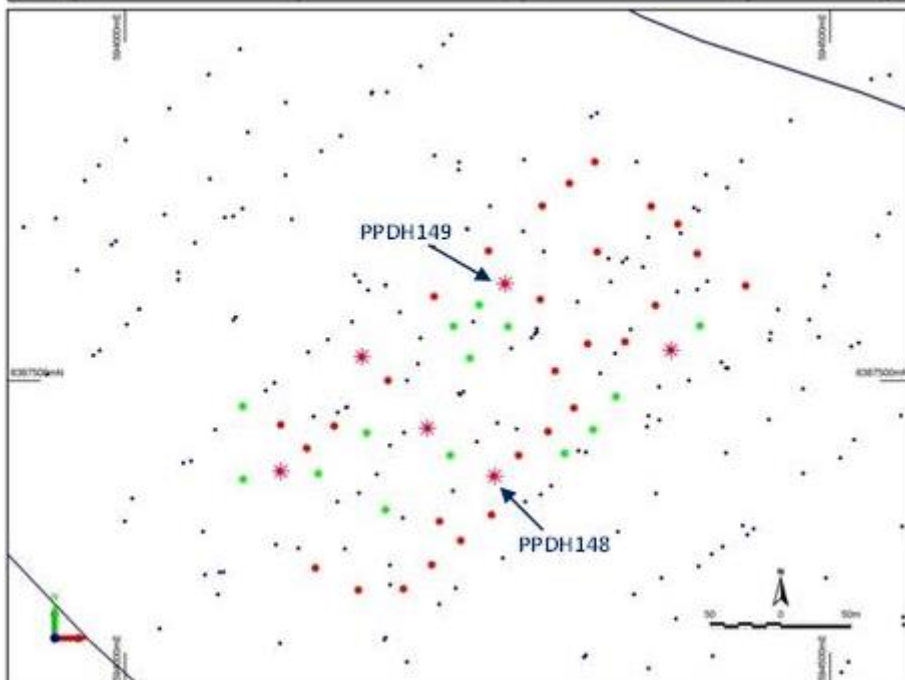


Figure 3: Enlargement of central area of Figure 2 showing drilling progress:

- Red dots - completed RCP holes.
- Green dots - RCP holes to be completed.
- Asterisks - planned diamond twin holes (PDH148 and PPDH149 completed).

Nankivel copper-gold Targets:

Investigator drilled the first test hole at the Nankivel copper-gold target, 5km southeast of the Paris project, in mid-August (Investigator ASX Release: 15 August 2016). Nankivel was selected as a porphyry-style target along a connecting structural trend extending from the Paris deposit and is well-situated at the southern end of an intrusive complex that is central to a 15km by 10km mineral system. It was developed from leads arising from the discovery of Paris in 2011.

One 500m inclined diamond drill hole was planned as an initial test of several prospective scenarios. This hole intersected a large copper-bearing porphyry. It was extended to 600m depth as the entire hole continued through a strongly altered porphyritic monzonite, a common intrusive host to porphyry copper deposits. The zoned variations in the alteration mineralogy and disseminated and vein-associated chalcopyrite (common copper sulphide) of low visual content indicates the hole intersected the margin of a large porphyry system with copper-gold and possible silver potential (Investigator ASX Release: 1 September 2016).

The intersected porphyritic monzonite showed extensive disseminated pyrite and strong zoned mineral alteration and veining typical of a porphyry copper system. The alteration minerals ranged from carbonate veins to epidote and chlorite replacements and veins to magnetite, biotite and sericite. The magnetic target is explained by the magnetite alteration then deeper pyrrhotite (magnetic iron sulphide) alteration of possible skarn affinity towards the bottom of the hole.

Disseminated and vein-hosted chalcopyrite, a common copper sulphide, occurs at low levels (visually less than 1% chalcopyrite) from about 200m down the hole. The extent of alteration and copper mineralisation in the single drill test is very encouraging for a large system with potential for shallower copper, as well as gold and silver credits. Such potential is supported by epithermal float on the scree-covered slope of Nankivel Hill with grab samples assaying up to 1.38g/t gold, 94g/t silver, 0.6% lead, 1.0% arsenic and 300ppm copper (Figure 4).

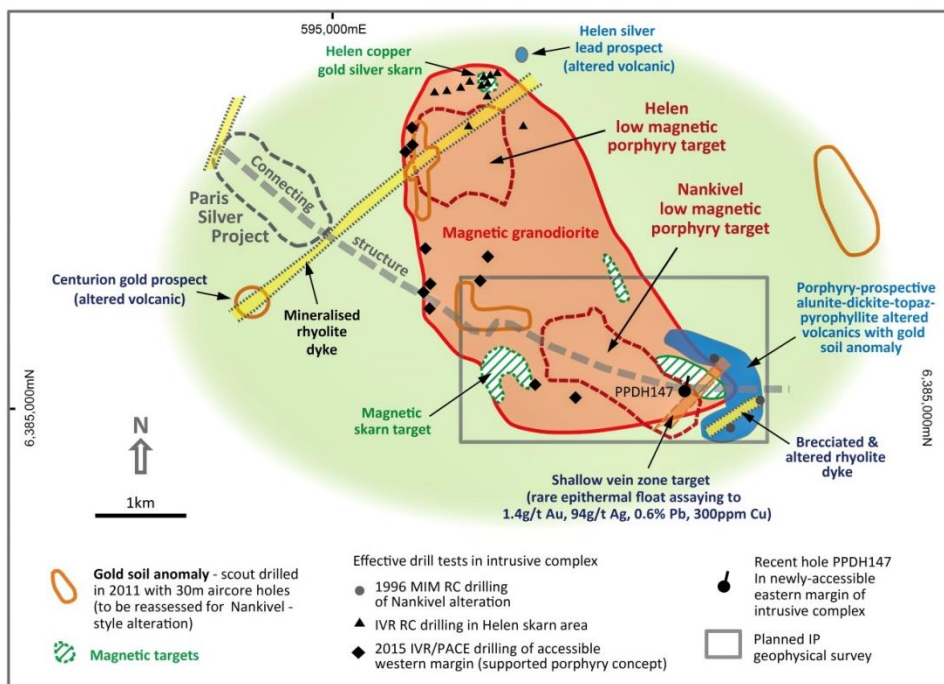


Figure 4: Paris-Nankivel mineral system - Summary target plan

Porphyry copper deposits occur in local and regional clusters that are associated with gold and silver deposits. The Nankivel hole will provide data for vectoring towards shallow copper targets within the porphyry system. The new drill core will be researched with state-of-the-art spectral logging techniques by the Geological Survey of South Australia ("GSSA"). This will be an extension of the collaborative research Investigator is already undertaking with the GSSA on the Paris silver deposit, also a new deposit style for South Australia.

As an incentive to accelerate regional development, the South Australia Government granted PACE co-funding to collaboratively drill the Nankivel hole. The positive result from the first hole prompted Investigator to review its extensive geological, geophysical and drill data in the new context of the verified porphyry target model. This identified two new porphyry copper target areas (Figure 4) - Nankivel, extending 1.5km west of PPDH147, and Helen,

3km north of Nankivel at the opposite end of the intrusive complex. Both target zones were delineated by areas of low magnetics.

Three inclined RCP holes have been completed to date near the diamond drill hole PPDH147. These follow up holes, also supported by government funding, are testing immediate shallow copper-gold targets near PPDH147. The new holes will test float evidence of shallow epithermal vein mineralisation in an interpreted 1km by 100m wide target zone (Figure 4) and will seek further mineralisation vectors within the porphyry system.

The abundance of visual pyrite in the first Nankivel drill hole supports the roll out of a 3km by 2km Induced Polarisation survey over the Nankivel porphyry system commencing early November. The Induced Polarisation survey is a standard geophysical technique used for porphyry targeting. Resulting IP targets will be considered for drilling in early 2017.

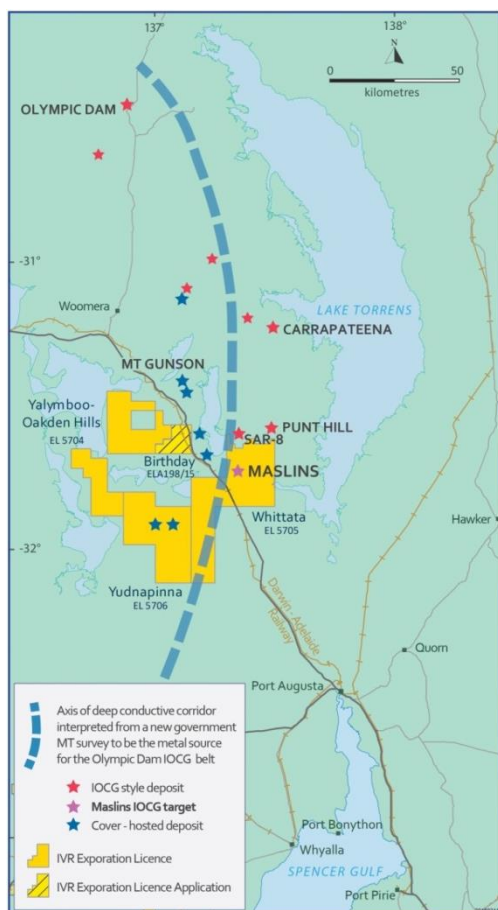
Ares Silver Target:

The RCP rig drilling the Paris infill holes briefly moved onto the Ares silver target situated 3km north of Paris. The Ares target was delineated by a trial airborne electromagnetic (EM) survey undertaken by the State Geological Survey and CSIRO in 2013. Four inclined RCP holes to 170m maximum depth tested the EM anomaly on a single line. The assay results are pending, and will be reported during the December Quarter.

Maslins Project

Yalymboo-Oakden Hills (EL5704), Whittata (EL5705), Yudnapinna, (EL5706) and Birthday (EL5738) (GRL 100%) [Refer to Figures 1, 5, 6 and 8]:

Figure 5: Plan showing the location of the Maslins IOCG target in relation to mineral deposits, the new Magneto-Telluric corridor and IVR tenements

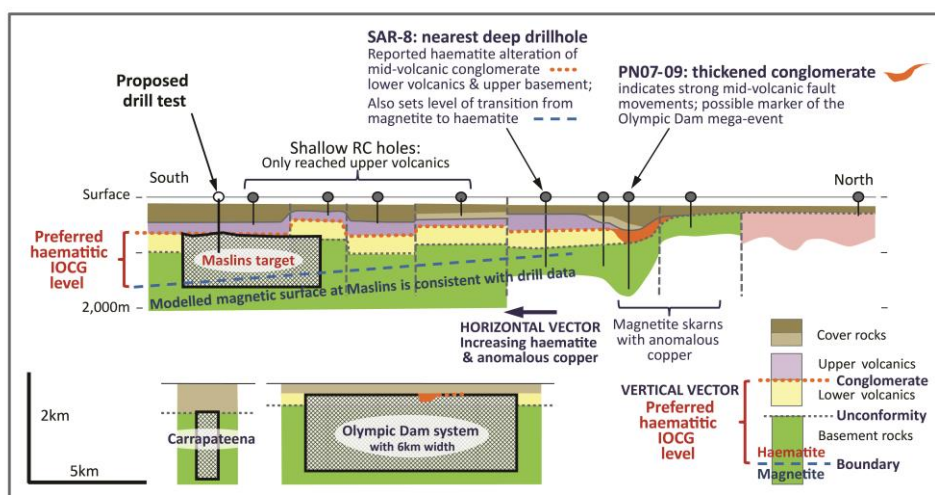


The main focus has been the continued collection of historical data and its review. Data acquired includes SARIG drillhole data from the surrounding 50km² Maslin target area and Hylogger data.

The Maslins IOCG gravity target was upgraded by the re-assessment of the regional drill data in the context of Investigator's new targeting concepts. The modelled Maslins target is interpreted to be at the right geological depth for the formation of haematite-hosted IOCG deposits. The vertical depth of 0.6 to 1.6km is also considered permissive for modern underground caving technology.

The modelled gravity target is also of the size to potentially fill the gap between the Carrapateena or Prominent Hill and giant Olympic Dam sized IOCG deposit systems.

Figure 6: Regional schematic long section showing the indicative position & size of the modelled Maslins IOCG target plus targeting vectors derived from historic drill holes



Regional Eyre Peninsula Projects

Thurlga Joint Venture (Gawler Resources Limited, earning to 75% and Manager, Peninsula Resources/Adelaide Resources) Thurlga (EL5419) [Refer to Figures 1, 7 and 8]:

The 2016 PACE Thurlga JV application was successful for co-drill funding of geochemical and geophysical anomalies within the Thurlga JV tenement with a grant of up to A\$90,000.

The proposed program consists of 1,110m of aircore holes and a ± 200 m deep diamond drill hole, which may be deepened, depending on the results as the hole is drilled.

The four geochemical anomalies to be drilled are at; *Wide, Yorker, Swinger and Starburst* (Figure 7). Two targets are planned to be drilled in the Ironstone Prospect. Up to four aircore holes are planned in a traverse to locate the southern edge of the Uno Fault and enable accurate positioning of the diamond drill hole. The diamond drill hole will provide information regarding the accurate position and dip of the Uno Fault, the nature of the Uno fault, sense of displacement and mineralisation plus alteration in and around the Uno Fault and Hutchison Group meta-sediments (Conceptual model for drilling at Ironstone). The second target (Ironstone South) is a combined gravity, magnetic, electromagnetic and soil geochemistry (gold, copper and nickel) target. It is proposed that this could be a Hiltaba-related mafic intrusive within the dolomitic meta-sediments.

The Company is currently finalising the statutory obligations in order to commence drilling, including the 'Heritage Clearance Survey'. The 'Program for Environment Protection and Rehabilitation' has been approved. Drilling is scheduled for March 2017.

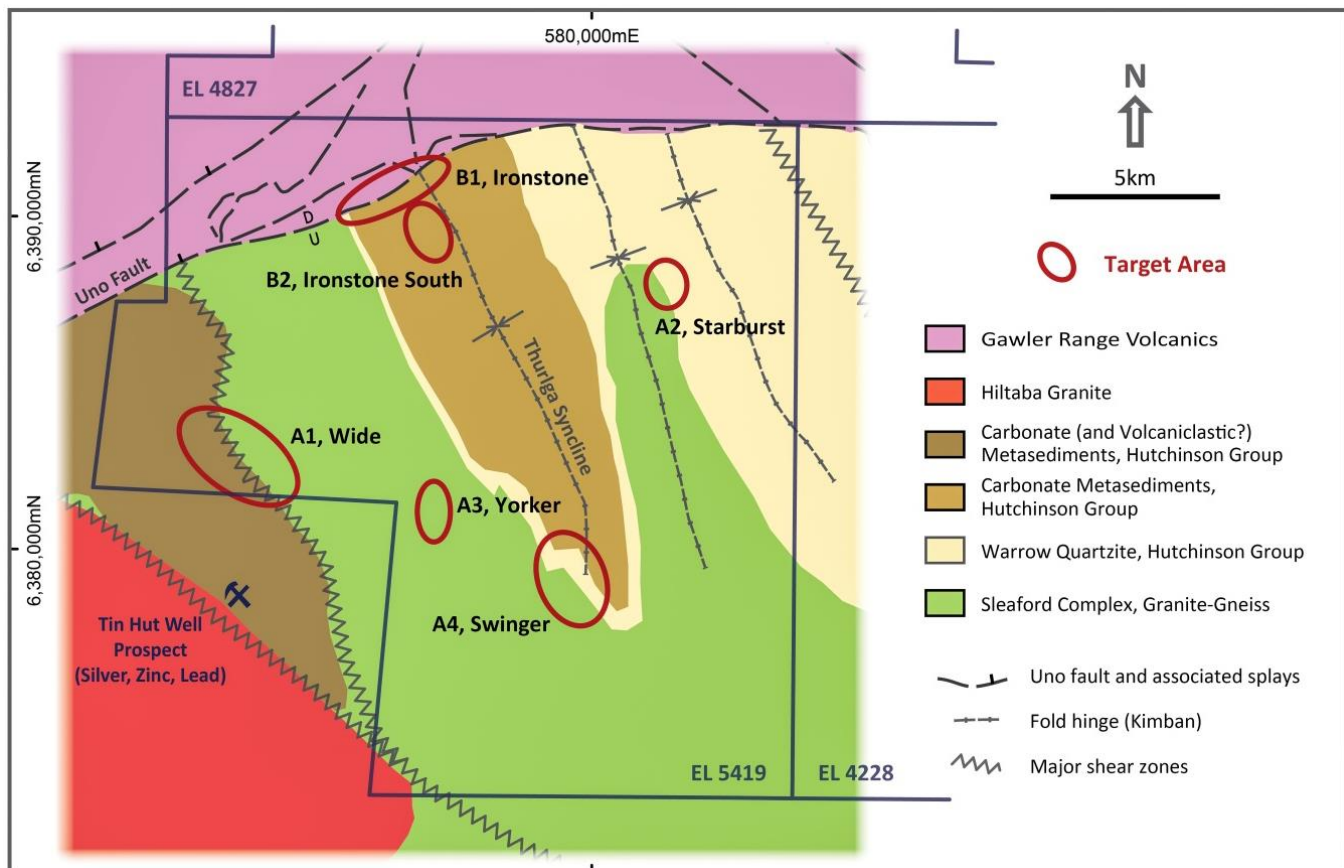


Figure 7: Thurlga JV - Target Plan

On-going reinterpretation of the geophysical data following the positive Nankivel results indicates that there may be the potential for intrusive bodies either within or beneath the Thurlga Syncline (Figure 7). Infill soil results indicate gold and copper to be highest immediately adjacent to the Uno Fault, the B1 Ironstone and B2 Ironstone South area. Field examination of this area finds no direct evidence for the proposed intrusives; however it has been noted that there

appears to be evidence of haematite in historically drilled holes in this zone during the late 1980s. Further work is required.

Uno/Morgans (EL4769 & 4828) (IVR 100%) [Refer to Figures 8]:

On-going mapping and rockchip sampling program was conducted at the end of the Quarter, using coincident cobalt, nickel, cerium and lithium soil anomalies. This new approach worked well with a significant number of new manganese ironstone samples being collected within the Uno and Morgans tenements. Assays are still pending for 25 rock chip samples taken from lag and outcrop.

Corporate

As reported last quarter (Investigator ASX Release: 19 July 2016), Investigator completed a capital raising of A\$5.4million via the placement of 114,893,617 shares at A\$0.047 each to sophisticated and professional investors.

The proceeds are being used to fund infill drilling of the Paris silver deposit towards converting the 2015 Inferred Mineral Resource of 8.8Mt at 116g/t silver (containing 33Moz silver at a 50g/t silver cut-off) to Indicated status, as well as other exploration.

SA Government grants accelerate exploration:

During the quarter, Investigator received two grants totalling A\$290,000 to assist drilling of selected exploration targets (Investigator ASX Release: 17 August 2016):

- Nankivel copper-gold target near Paris (A\$200,000); and
- Silver targets in the Thurlga JV tenement adjacent to Paris (A\$90,000).

The South Australian government co-funding applies to 50% of direct drilling and assaying costs for these exploration targets.

The industry grants are a key part of the South Australian State Government's PACE ('Plan for Accelerating Exploration') Discovery Drilling Program. The proposals were assessed on prescribed criteria by the Department of State Development and independent industry representatives.

TENEMENT QUARTERLY STATUS

Table 1 summary's the changes to Investigator Resources Limited tenement holding during the September 2016 Quarter. Figure 8 shows the location of the Investigator tenements.

Table 1: Summary of Investigator Resources Limited tenement changes during the September 2016 Quarter.

Tenement Number	Tenement Name	Registered Holder	Note
Project: East Eyre Peninsula (IVR 100%)			
5109	Lake Gilles	GRL	Current
4841	Moonabie	GRL	Current
4860	Moseley Nobs	GRL	Surrender approved by Minister
5406	Botenella Gate	GRL	Current
5857	Barna Hill	GRL	Current, granted during the Quarter
4827	Mt Nott	GRL	Current
4938 - 117/16	Kimba	IVR	Current - Subsequent Renewal pending
5697	Fairfield	IVR	Current
5826	Tumby Bay	GRL	Current, granted during the Quarter
Project: Peterlumbo (IVR 100%)			
5368	Peterlumbo	Sunthe	Current
Project: Uno/Morgans (IVR 100%)			
5845	Uno Range	GRL	Current - Renewal approved by Minister
4828	Morgans	GRL	Current
Project: West Eyre Peninsula (IVR 100%)			
5388	Mt Centre	IVR	Surrender approved by Minister
5389	Scrubby Peak	IVR	Surrender approved by Minister
5512	Googs Lake	IVR	Current
Project: Northern Yorke Peninsula (IVR 100%)			
5444	The Hummocks	GOY	Current
5713	Bute	GOY	Current
Project: Thurgla JV (PRL, GRL earning to 75%)			
5419	Thurlga	PRL, GRL earning to 75%	Current - Renewal approved by Minister
Project: Maslins (previously Central Gawler) (IVR 100%)			
5704	Yalymboo-Oakden Hills	GRL	Current
5705	Whittata	GRL	Current
5706	Yudnapinna	GRL	Current
5738	Birthday	GRL	Current
Project: East Eyre Peninsula (IVR 100%) ** Applications **			
070/16	Mt Millar	GRL	Application
080/16	Cunyarie	GRL	Application

Notes:

IVR - Investigator Resources Ltd.

Sunthe - Sunthe Uranium Pty Ltd, a wholly owned subsidiary of Investigator Resources Ltd.

GRL - Gawler Resources Pty Ltd, a wholly owned subsidiary of Investigator Resources Ltd.

GOY - Goyder Resources Pty Ltd, a wholly owned subsidiary of Investigator Resources Ltd.

PRL - Peninsula Resources Ltd, a wholly owned subsidiary of Adelaide Resources Ltd.

During the September Quarter:

- EL5826 (Tumby Bay) was granted to GRL.
- EL5769 (Uno Range) and EL5857 (Barna Hill), subsequent exploration licence applications, have been approved by the Minister.
- The relinquishment of EL4860 (Moseley Nobs) was approved by the Minister.
- The surrender of EL5388 (Mt. Centre) and EL5389 (Scrubby Peak) has been approved by the Minister.

EL4938 (Kimba) is being renewed as subsequent exploration licence applications and is pending Ministerial approval of renewal.

GRL are still waiting for Ministerial approval of two applications; ELA2016/070 (Mt Millar) and ELA2016/056 (Cunyarie).

There were no other changes to the beneficial percentage interests in farm-in or farm-out agreements held or relinquished during the Quarter.

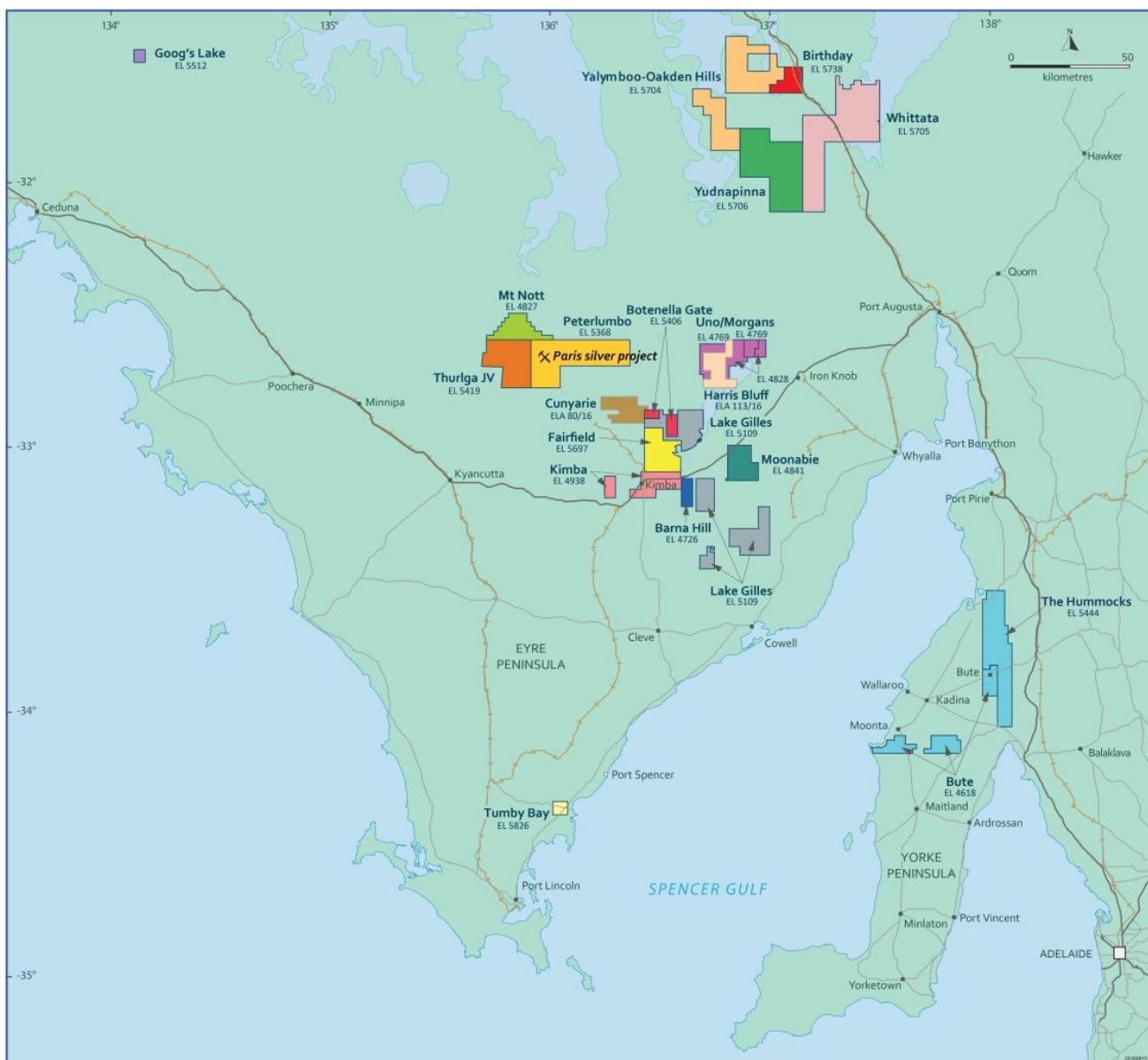


Figure 8: Investigator granted tenement plan

CORPORATE FOCUS

- Advance the Paris Silver Project to an Indicated Mineral Resource and complete a Pre-Feasibility study by mid-2017.
- Accelerate copper-gold exploration at Nankivel at the centre of the Paris silver field following the breakthrough discovery of a large porphyry system with copper-gold potential in September 2016.
- Seek additional larger silver resources and new nickel resources within the Paris field and broader Uno Province, based on knowledge gained from the Paris and Nankivel discoveries.
- To drill the Maslins IOCG-style copper-gold prospect, a first-mover opportunity in a newly identified geophysical extension to the Olympic Dam and Carrapateena belt.

ABOUT INVESTIGATOR RESOURCES

Investigator Resources Limited (ASX code: IVR) combines original geological concepts, the latest research and its deep exploration experience to make high-value greenfield discoveries for shareholders. The Company is focused on silver-lead, copper-gold and nickel discoveries offered by the resurging minerals frontier of the southern Gawler Craton on South Australia's northern Eyre Peninsula.

The Company has applied a consistent and innovative strategy that has developed multiple ideas and quality targets that has given Investigator first-mover status.

The Paris silver deposit is the first discovery in South Australia of an epithermal deposit style. In the

past quarter, the Company found the state's first large porphyry system with copper-gold potential at Nankivel.

In November, 2015, the Company upgraded its estimation for the Paris Silver Project Inferred Mineral Resource to 8.8Mt at 116g/t silver, containing 33Moz silver (at a 50g/t silver cut-off).

CORPORATE

The quarterly direct exploration expenditure was A\$0.52million, and associated corporate and administration costs were A\$0.36million. The Company held A\$5.71million in cash at the end of the report quarter.

KEY PROJECTS

Southern Gawler Craton:

1. Paris silver project and other silver discovery potential nearby.
2. Nankivel and other porphyry copper-gold targets.
3. Maslins IOCG copper-gold target at southern end of Olympic Dam belt.
4. Nickel and cobalt potential in probable Archaean enclaves in northern Eyre Peninsula.

CAPITAL STRUCTURE

As at 30 September 2016:

- Shares on issue 580,591,577
- Listed Options 114,179,704
- Unlisted Options 16,145,000

The top 20 shareholders at 30 September 2016 held 34.13% of the shares on issue.

Total shareholders: 3,583.

SUBSTANTIAL SHAREHOLDERS

As at 30 September 2016:

- CITIC Australia Pty Ltd - 11.56%.
- Old Mutual – 5.1%.

ASX listing code: IVR

DIRECTORS AND MANAGEMENT

Mr Roger Marshall OBE (Non Exec. Chairman)
Mr David Jones (Non Exec. Director)
Mr Bruce Foy (Non Exec. Director)

Mr John Anderson (Managing Director)
Mr Angelo Gaudio (CFO and Company Secretary)

COMPETENT PERSON COMPLIANCE STATEMENT

The information in this presentation relating to exploration results is based on information compiled by Mr. John Anderson who is a full time employee of the company. Mr. Anderson is a member of the Australasian Institute of Mining and Metallurgy. Mr. Anderson has sufficient experience of relevance to the styles of mineralisation and the types of deposits under consideration, and to the activities undertaken, to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (JORC) Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr. Anderson consents to the inclusion in this report of the matters based on information in the form and context in which it appears.

The information in this presentation that relates to Mineral Resources Estimates at the Paris Silver Project is extracted from the report entitled "Upgraded Paris resource estimate: 60% increase to 33Moz silver" dated 9 November 2015 and is available to view on the Company website www.investres.com.au. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

FOR FURTHER INFORMATION:

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