

13 September 2021

**DRILLING CONFIRMS PROSPECTIVITY OF NEW TARGETS AT HIGH-GRADE
MT ALEXANDER NICKEL-COPPER SULPHIDE PROJECT**

**DRILLING AT NEW CARNAC PROSPECT CONFIRMS PROSPECTIVE INTRUSIVE UNIT AS SOURCE OF
STRONG EAST-WEST ORIENTED LINEAR MAGNETIC TREND:**

- Maiden reverse circulation (RC) drilling at the Carnac Prospect on E29/1041 (100% St George) has intersected a number of mafic-ultramafic horizons up to 85m thick
- Mafic-ultramafic rocks at Carnac are analogous to the intrusive-host unit at the Cathedrals Belt where significant nickel-copper sulphides have been discovered
- Further exploration activity will be planned for Carnac once laboratory assays from the current drilling are received

DRILLING AT JAILBREAK PROSPECT INTERSECTS THICK ULTRAMAFIC:

- Maiden RC drilling at the Jailbreak Prospect on E29/962 (100% St George) has intersected komatiite ultramafics up to 270m thick
- All completed drill holes intersected the ultramafic horizon, establishing a large search area that is prospective for nickel sulphides
- Downhole EM (DHEM) surveys are planned for Jailbreak, followed by further drilling

SEISMIC SURVEY IS UNDERWAY:

- First ever seismic survey at the Cathedrals Belt has commenced
- Survey will focus on mapping the intrusive horizon at the West End Prospect and the western section of the Investigators Prospect up to depths of 1.5km
- Survey data will assist to generate additional targets for the upcoming diamond drill programme

DIAMOND DRILL RIGS SECURED:

- A diamond drill rig is scheduled to arrive at Mt Alexander later this month to drill nickel-copper sulphide targets at West End and Investigators
- A second diamond drill rig is scheduled to arrive at St George's 100%-owned Paterson Project in early October to undertake deep drilling of priority copper-gold targets

Growth-focused Western Australian nickel company St George Mining Limited (**ASX: SGQ**) (“**St George**” or “**the Company**”) is pleased to provide an update of exploration activities underway at its flagship high-grade Mt Alexander Project, located in the north-eastern Goldfields.

John Prineas, St George Mining’s Executive Chairman, said:

“Early results from the RC drilling at Mt Alexander are very promising with multiple prospects emerging that look highly prospective for more significant nickel discoveries.

“The geology encountered in the drilling at the Carnac and Jailbreak prospects fits the respective geological models that we are targeting in these areas.

“The thickness of the prospective units intersected at both Carnac and Jailbreak is very impressive and provide a significant search horizon for potential nickel sulphide mineralisation.

“We look forward to progressing our systematic exploration of these prospects which are located within our 100%-owned tenements at Mt Alexander.

“The multiple new exploration targets established across our project tenure – in addition to the high-grade discoveries already made at the Cathedrals Belt – support the potential for Mt Alexander to develop into a major nickel camp with multiple high-grade nickel-copper sulphide deposits.

“We will keenly await the data from the seismic survey at the Cathedrals Belt ahead of resuming our deep diamond drilling at Mt Alexander.

“The seismic survey will provide crucial information regarding the orientation and behaviour of the intrusive-host structure at depths of up to 1.5km, to give us more accurate modelling of current drill targets and provide further targets beyond the scope of current EM surveys.

“With diamond drilling at both Mt Alexander and our Paterson Project due to kick off again shortly, we expect a very busy and important period of newsflow at a time when the market is looking for exciting exploration news.”

CARNAC PROSPECT – DRILLING CONFIRMS PROSPECTIVE INTRUSIVE UNIT

Seven drill holes were completed at the newly identified Carnac Prospect – MARC139, MARC140, MARC141, MARC142, MARC143, MARC144 and MARC145. Carnac is located on E29/1041 (100% St George).

The drill holes were designed to test a linear magnetic trend that extends east-northeast across the Carnac Prospect for more than 8km. Drilling has successfully confirmed the presence of mafic-ultramafic intrusive-style rocks that have the same geochemical signature as the rocks seen at the east-northeast trending Cathedrals Belt, giving support for the potential of Carnac to also host high-grade nickel-copper sulphides similar to those on the Cathedrals Belt.

The soil survey at Carnac which returned anomalous values for nickel, copper and chromium was only partly completed prior to this RC drilling. The encouraging results from the drilling warrant a broadening of the soil survey over the remainder of the trend towards the east. For further details of the soil survey at E29/1041, see our ASX Release dated 2 August 2021 *Soil Assays Confirm New Ni-Cu Target at Mt Alexander*.

Follow-up activity will be planned once the results of the current drilling and soil survey are reviewed.

Details of the completed drill holes are contained in Table 1. Observations are based on geological logging. Laboratory assays for these holes are pending and are required for a conclusive determination of the nature of the rocks intersected.

Hole ID	Easting	Northing	Depth	Azi	Dip	Observations
MARC139	230691	6821748	126	180	-60	Intersected M/UM units from 37-41m; 44-70m; 105-106m; and 113-114m.
MARC140	230685	6821859	114	180	-60	Intersected M/UM units from 18- 22m; 41-50m; 59-75m and 110-114m.
MARC141	230691	6821943	150	180	-60	Intersected M/UM units from 85-149m.
MARC142	228933	6821317	150	180	-60	Intersected M/UM units from 6-14m; 17-26m; and 103-132m.
MARC143	228936	6821353	150	180	-60	M/UM intrusives from 0-38m and 58-100m.
MARC144	225721	6820942	150	180	-60	M/UM intrusive from 30-115m.
MARC145	227778	6820427	150	180	-60	M/UM intrusive unit from 30-85m.

Table 1 – drill holes completed at Carnac. **M** means mafic and **UM** means ultramafic.

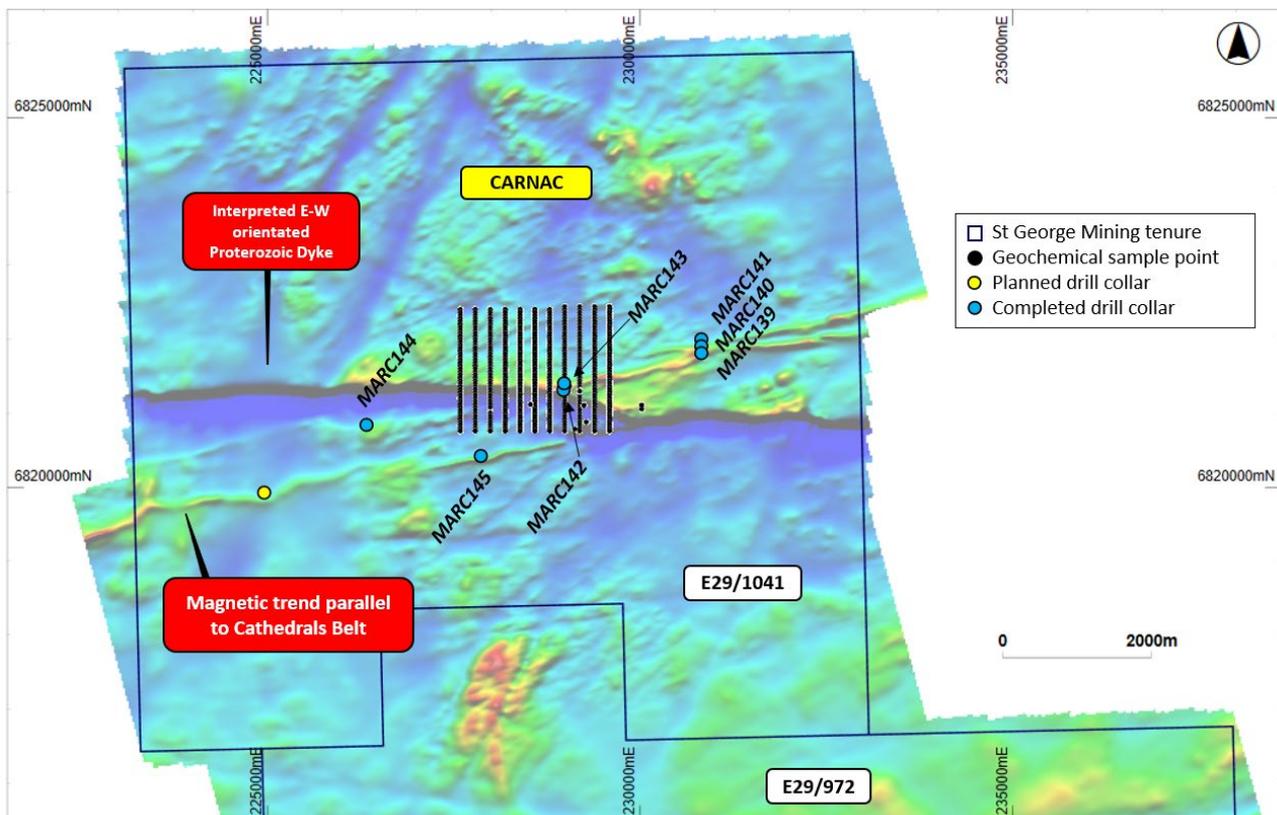


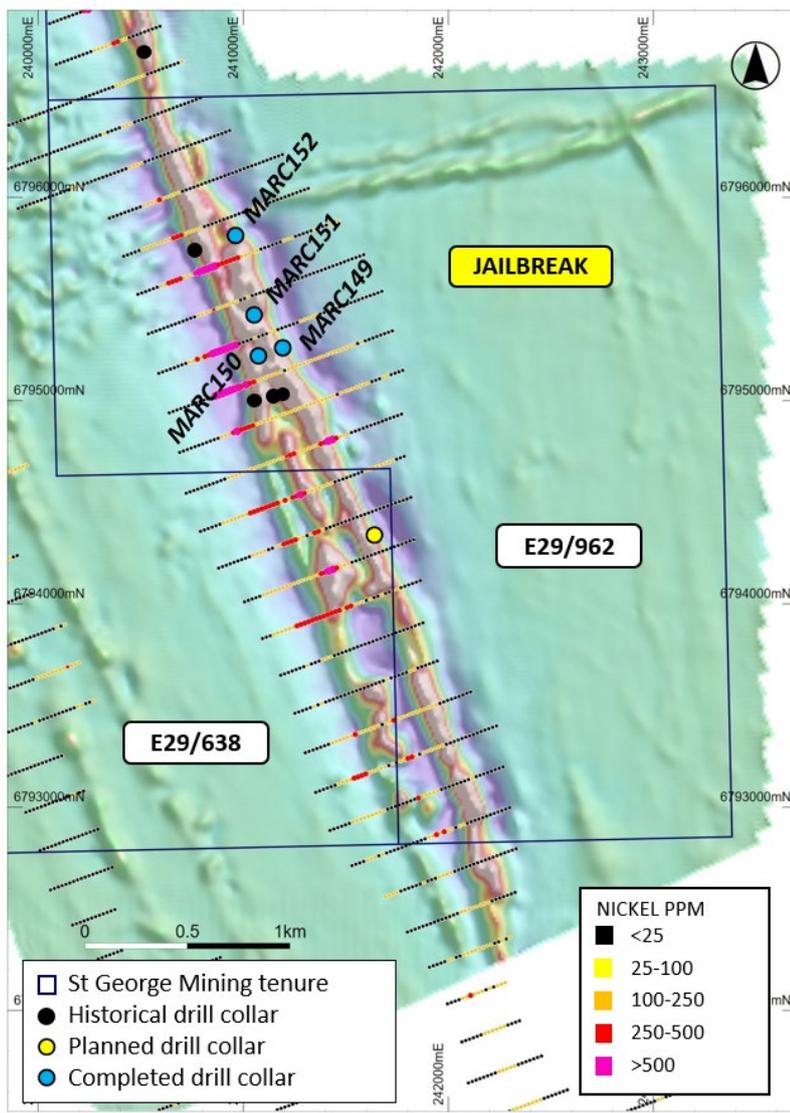
Figure 1 – map (1VD magnetic data) showing the completed drill holes at Carnac and the soil survey area. The soil survey will be extended to cover the extension of the linear trend to the east.

DRILLING AT E29/962 – THICK KOMATIITES CONFIRMED

Four drill holes were completed at the Jailbreak Prospect – MARC149, MARC150, MARC151 and MARC152. Jailbreak is located on E29/962 (100% St George).

Jailbreak encompasses part of a north-south oriented ultramafic belt that lies parallel and to the east of the main north-south Mt Alexander ultramafic belt which is known to host komatiitic ultramafics and associated nickel sulphides.

St George’s first-ever drilling at Jailbreak was designed to follow-up historical geochemical anomalies and confirm the presence of komatiites that are prospective for nickel sulphides.



All drill holes completed by St George intersected multiple thick ultramafic units within the targeted sequence.

The drill holes did not intersect the basal contact of the ultramafic channel, which is where any potential nickel sulphides are most likely to be located.

Minor sulphides (\$py) were observed in all holes, interpreted in field observations as hydrothermal pyrite.

Nickel sulphides were not observed in the drill holes during the geological logging and laboratory assays are pending to conclusively determine the nature of the sulphides in the drill holes.

Figure 2 – Map showing St George drill holes as well as historical shallow drilling and geochemical sample locations overlaying magnetic data image (RTP 1VD) for E29/962 and the southern end of E29/638.

DHEM surveys are scheduled for the completed drill holes to search for potential conductive nickel sulphides around the holes.

Further drilling will be planned for Jailbreak following a review of DHEM survey data, including deeper drilling to target the prospective basal part of the ultramafic stratigraphy which has yet to be tested.

Details for the completed drill holes at Jailbreak are set out below.

Hole ID	Easting	Northing	Depth	Azi	Dip	Observations
MARC149	241199.3146	6795249.499	150	250	-60	Continuous UM from 26m. Multiple UM units observed to bottom of hole.
MARC150	241089.8992	6795209.473	138	250	-60	Continuous UM from 60m to 138m. Multiple UM units observed to end of hole (EOH). Hole stopped pre-maturely due to intercepting asbestos.
MARC151	241054.5466	6795409.71	267	250	-60	Continuous UM without significant mineralisation. Significant amount of asbestos fibre; hole terminated early.
MARC152	240973.4675	6795807.445	270	250	-60	Continuous UM. Multiple UM units observed to EOH of hole.

Table 2 – drill holes completed in St George’s maiden programme at Jailbreak. **UM** means ultramafic.

DRILLING OF OTHER TARGETS

Stragglers – Large Bulls-Eye Magnetic Anomaly:

A large and strong magnetic anomaly located on E29/972 (100% St George) was also scheduled for drilling in the current RC campaign.

Two drill holes attempted at this target encountered excessive ground water preventing the effective testing of this target. Further drilling will be planned, potentially with a diamond drill rig to avoid the ground water problem.

Details of the two drill holes are set out below.

Hole ID	Easting	Northing	Depth	Azi	Dip	Observations
MARC146	232120	6813629	126	180	-70	EOH at 126m in continuous granite.
MARC147	232004	6813947	42	180	-70	EOH at 42m due to sump overflow.

Table 3 – drill holes completed in the maiden programme at Stragglers.

Investigators – EM anomaly

MARC148 was completed to the south of the main Cathedrals Belt targeting a subtle moving loop EM (MLEM) anomaly.

The hole was drilled entirely in granite country rock. The MLEM anomalism has been attributed to surface interference from weathered clays. No further follow-up is required in this area.

Hole ID	Easting	Northing	Depth	Azi	Dip	Observations
MARC148	232009	6806076	144	0	-90	EOH at 144m. Continuous granite from surface.

Table 4 – details of MARC148 completed in the current RC programme at Investigators.

CATHEDRALS PROSPECT – INFILL DRILLING

RC drilling has now commenced at the Cathedrals Prospect where high-grade nickel-copper sulphides have been discovered from 30m below surface with two distinct deposits recognised.

Drilling will focus on the upper deposit, situated largely between 30m to 80m below surface and hosted within the intrusive Cathedrals mafic-ultramafic.

Initially, 25 drill holes will be completed with an average depth of 80m to test the potential extension of known mineralisation into areas where there has been no drilling.

Additional infill drilling will be designed once results from the initial holes are reviewed. For further details of the infill drilling at Cathedrals, see our ASX Release dated 16 August 2021 *Drilling Underway at Mt Alexander*.

SEISMIC SURVEY HAS COMMENCED

The first ever seismic survey at the Cathedrals Belt is underway. The survey will comprise up to 20km of five 2D seismic lines that are oriented north-south across the Cathedrals Belt at the West End and Investigators Prospects.

The seismic survey is expected to map the intrusive-host structure up to 1.5km below surface. Figure 3 shows the proposed seismic lines at the Investigators and West End Prospects. A number of EM conductors have been identified in this area by recent DHEM surveys.

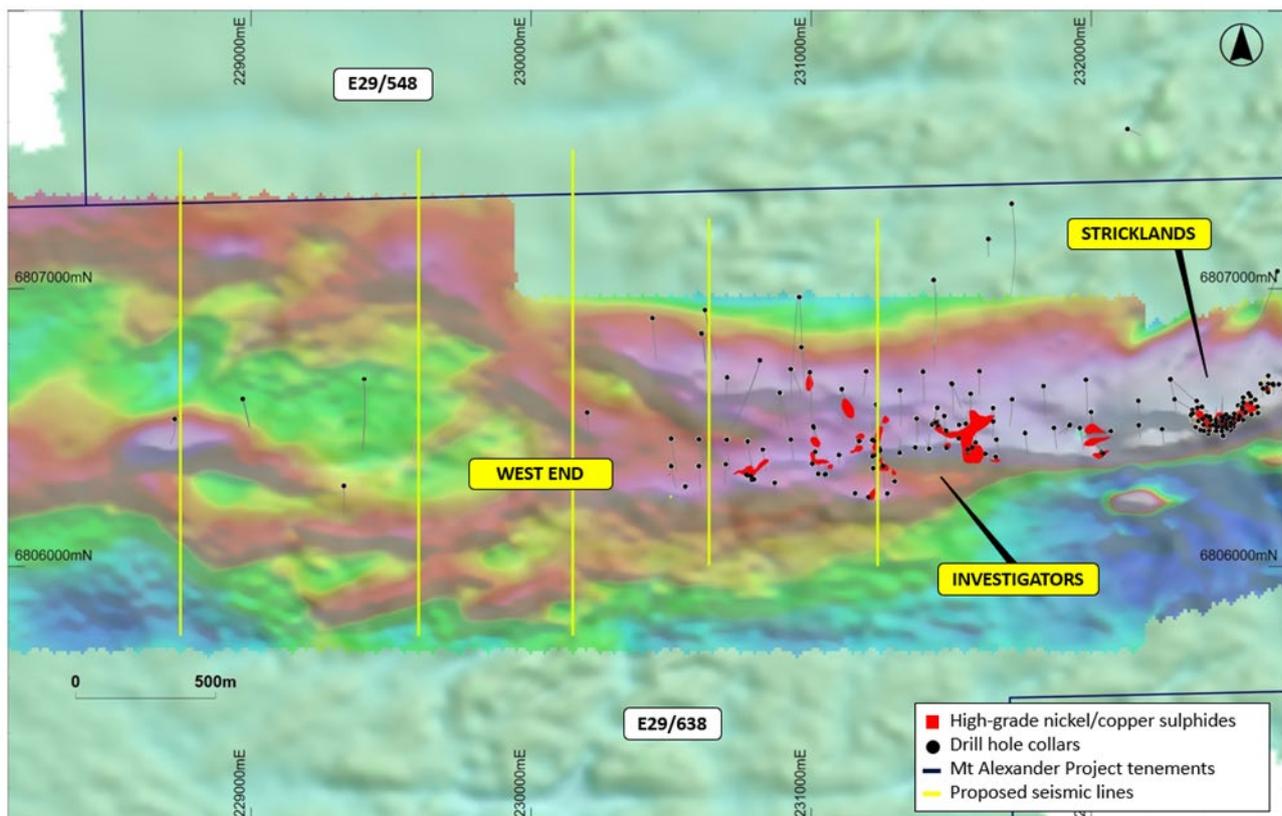


Figure 3 – map (against magnetic RTP 1VD and MMR data) showing the area for the seismic survey (yellow lines) as well as areas of known nickel-copper sulphides. The actual survey lines will be longer and extend to the north to provide optimum reflection angles on the intrusive unit and capture any extension of the unit to the north.

Drill targets for Mt Alexander will be finalised once the results of the seismic survey are reviewed. It is expected that the drilling will focus on the deeper EM conductors identified at West End and Investigators.

At the Paterson Project, the diamond rig will be used to follow-up on a highly successful maiden RC program.

COVID-19:

St George continues to manage its operations in compliance with COVID-19 regulations issued by State and Commonwealth authorities. We proactively manage drilling and other field programmes to protect the health and safety of our team and service providers.

Border restrictions in Western Australia and elsewhere have impacted on the movement of personnel for drill rig crews which is constraining the availability of drill rigs. St George is in close contact with its drilling contractors to best manage access and continuity to drilling services.

About the Mt Alexander Project:

The Mt Alexander Project is located 120km south-southwest of the Agnew-Wiluna Belt, which hosts numerous world-class nickel deposits. The Project comprises six granted exploration licences – E29/638, E29/548, E29/962, E29/954, E29/972 and E29/1041 – which are a contiguous package. A seventh granted exploration licence – E29/1093 – is located to the south-east of the core tenement package.

The Cathedrals, Stricklands, Investigators and Radar nickel-copper-cobalt-PGE discoveries are located on E29/638, which is held in joint venture by St George (75%) and Western Areas Limited (25%). St George is the Manager of the Project, with Western Areas retaining a 25% non-contributing interest in the Project (in regard to E29/638 only) until there is a decision to mine. All other Project tenements are owned 100% by St George.

Authorised for release by the Board of St George Mining Limited.

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Competent Person Statement:

The information in this report that relates to Exploration Targets, Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr Dave O'Neill, a Competent Person who is a Member of The Australasian Institute of Mining and Metallurgy. Mr O'Neill is employed by St George Mining Limited to provide technical advice on mineral projects, and he holds performance rights issued by the Company.

Mr O'Neill has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken 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'. Mr O'Neill consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.