

6 June 2023

NICKELSEARCH - DIAMOND DRILLING SEXTON & B1

KEY HIGHLIGHTS:

- Diamond drilling to commence at Sexton to test the strong down-hole electromagnetic (DHEM) conductor down-plunge of where January 2023 results show continuity of mineralisation over 150m of plunge and increasing width.
- In the previous reverse-circulation (RC) drill program, all holes at Sexton intersected nickeliferous sulphides.
- RC Drilling at B1 in May 2023 confirmed and extended the area of known historical nickel sulphide intercepts with sulphide-bearing komatiites and cumulate ultramafics logged. Assay results are eagerly awaited.
- The diamond drill will move to B1 next, to test this mineralisation further down plunge.

NickelSearch Limited (ASX: NIS) (NIS or Company) is pleased to advise that diamond drilling will soon commence at two targets at the Company's Carlingup Nickel Sulphide Project (**Carlingup**) near Ravensthorpe, Western Australia.

NickelSearch's Managing Director, Nicole Duncan, commented:

"Our next step is to follow up reverse-circulation drilling with diamond drilling, which will improve our understanding of the geology and architecture at these high priority greenfield nickel sulphide targets (see Figure 1). At Sexton, we intersected nickel-bearing massive sulphides in line with historical drilling, and down-plunge drilling suggests the presence of thicker sulphide mineralisation. The strike length of nickel mineralisation at Sexton now extends to 150m and remains open. At B1, we confirmed and extended the known nickel mineralisation. Overall, these developments are encouraging and demonstrate the potential for further success in our nickel sulphide exploration efforts."

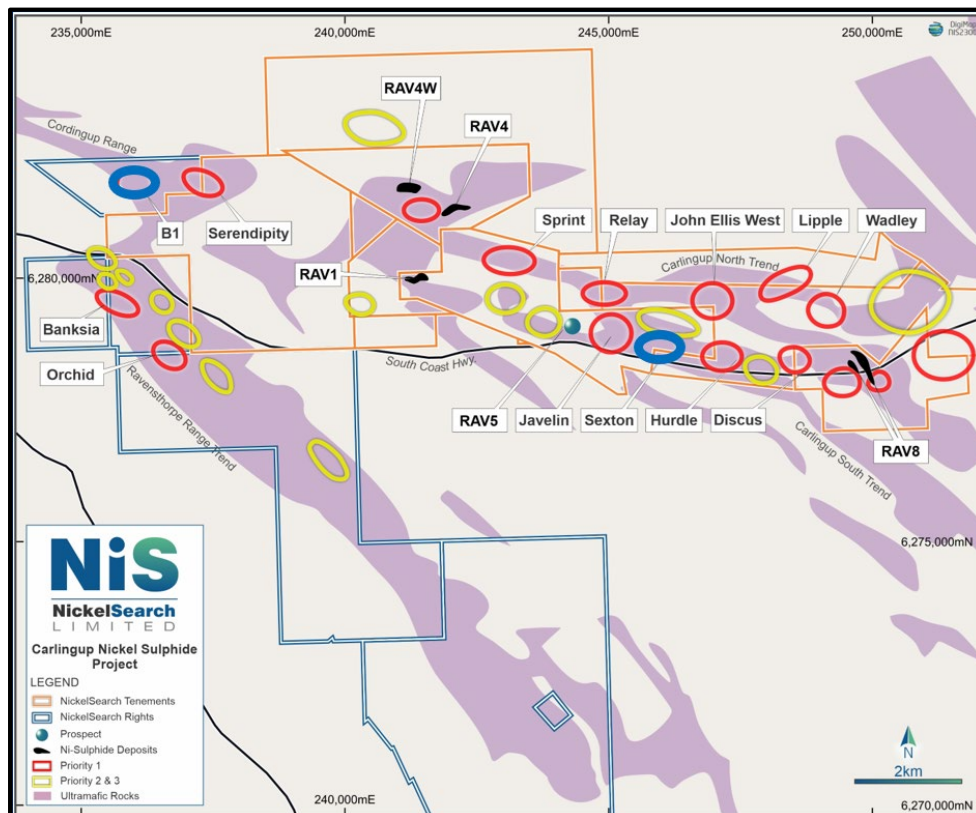


Figure 1: NickelSearch's tenement package, with Sexton and B1 in blue.

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SEXTON

Four RC holes were drilled at Sexton in January 2023, and each hole intersected nickel-bearing sulphide mineralisation. These intersections are consistent with the nearby historic drill intersection of 2.2m at 1.2% Ni and 0.17% Cu from 98.2m (hole RVD01015; see NIS Announcement dated 16 May 2022). Based upon the current drilling at Sexton, the overall plunge-length of the mineralisation extends to 150m and remains open both up- and down- plunge. The logged results show an increasing width of nickel mineralisation as drilling progressed down-plunge.

In the January RC drill program, every hole at Sexton intersected massive sulphides that are nickel-bearing. Assays included:

- 23NRC009: **3m at 1.11% Ni**, 0.2% Cu, 460ppm Co from 39m,
- 23NRC010: **5m at 0.43% Ni**, 0.06% Cu, 321ppm Co from 22m,
- 23NRC011: **3m at 1.04% Ni**, 0.09% Cu, 273ppm Co from 72m, and
- 23NRC012: **8m at 0.63% Ni**, 0.16% Cu, 258ppm Co and 204ppb 3E from 121m,
 - Including **1m at 1.03% Ni**, 0.17% Cu, 277ppm Co and 332ppb 3E from 125m.
 (where 3E = Pt + Pd + Au)

Two distinct bodies of mineralisation were encountered in the January 2023 drilling. An upper mineralised horizon (UMH) contained mostly disseminated nickel sulphides, whereas the lower mineralised horizon (LMH) consisted of mostly massive sulphides. DHEM surveys conducted within holes 23NRC011 and 23NRC012 detected conductive sources that correlated with both the upper and lower mineralised horizons within those holes (refer Figure 2). The modelling of the LMH suggested a much stronger anomaly (c. 20,000S), consistent with massive sulphide mineralisation, and suggests that this conductor extends at least 100m further down-plunge to the east-southeast from hole 23NRC012. The extent of this conductor model is likely constrained by the extent of effectiveness of the DHEM survey.

The strong EM conductor that continues down-plunge from the previously drilled mineralisation represents an excellent target for continued exploration. Two diamond drill holes are planned to test this conductive source (see Figure 2). While the principal target for this drilling is massive sulphides associated with the LMH, the holes are designed such that the potential for further nickel sulphide mineralisation within the UMH will also be tested. Further DHEM may be undertaken upon completion of the drill holes to test for any further extensions of the mineralisation.

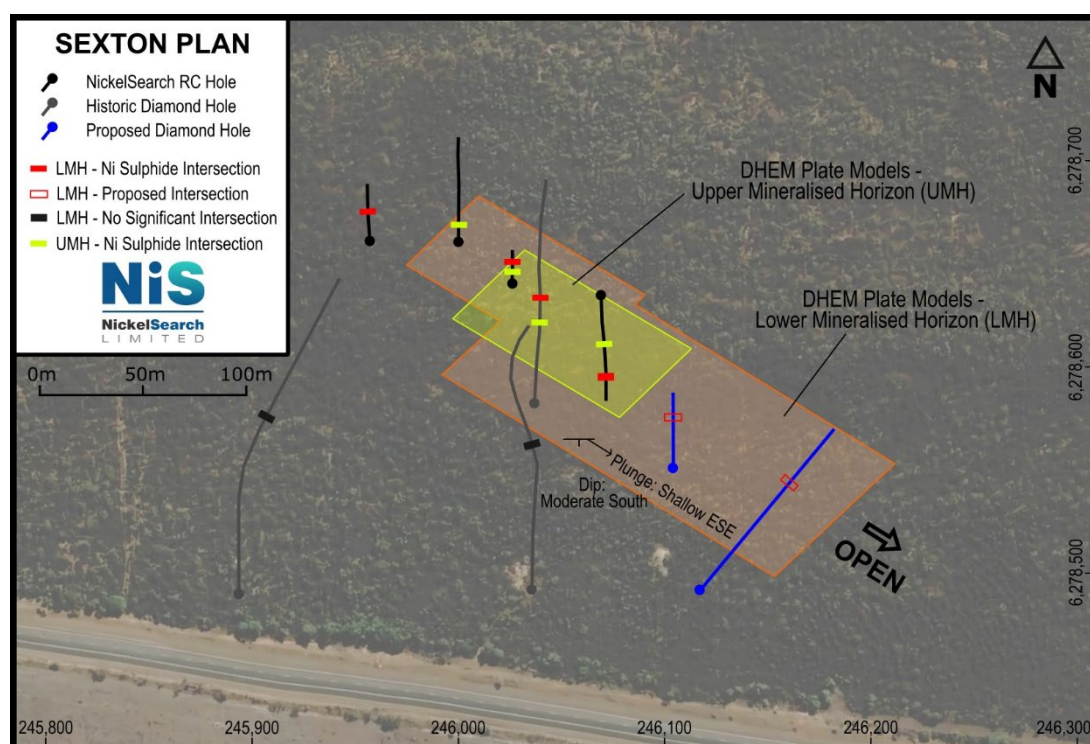


Figure 2: Plan of the Sexton area. The DHEM plate models, which are associated with the massive sulphide intersections, plunge shallowly to the east-southeast. The two planned diamond holes aim to intersect the DHEM plate models down-plunge of the previous nickel sulphide intersections.

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B1

At B1, NickelSearch drilled seven RC holes for a total of 1,108m with the aim of validating and extending nickel mineralisation (grading >1% Ni over multiple metres) identified by historical drilling. These historic intercepts at B1 included:

- DDHB1001 - **9.1m @ 0.7% Ni**, 0.1% Cu from 19.8m,
○ and **4.6m @ 0.8% Ni**, 0.1% Cu from 35.0m,
- RAVC0162 - **7.0m @ 1.0% Ni**, 0.09% Cu from 157.0m, and
- DDHB1010 - **6.1m @ 1.0% Ni**, 0.08% Cu from 192.6m.

Figure 3 is a cross-section of relevant intersections from the RC drilling completed in May 2023 with the historic intersections. The proposed location of the diamond drillhole is also indicated.

The nickel sulphide mineralisation forms a linear shoot on a predictable planar surface, dipping very steeply to the southwest. The mineralisation occurs as disseminated sulphides in altered cumulate ultramafics. DHEM surveying of selected holes is planned to locate conductors that may indicate the presence of matrix or massive sulphides. The results of the DHEM will allow an improved understanding of the geometry of the mineralisation and may delineate further drill targets.

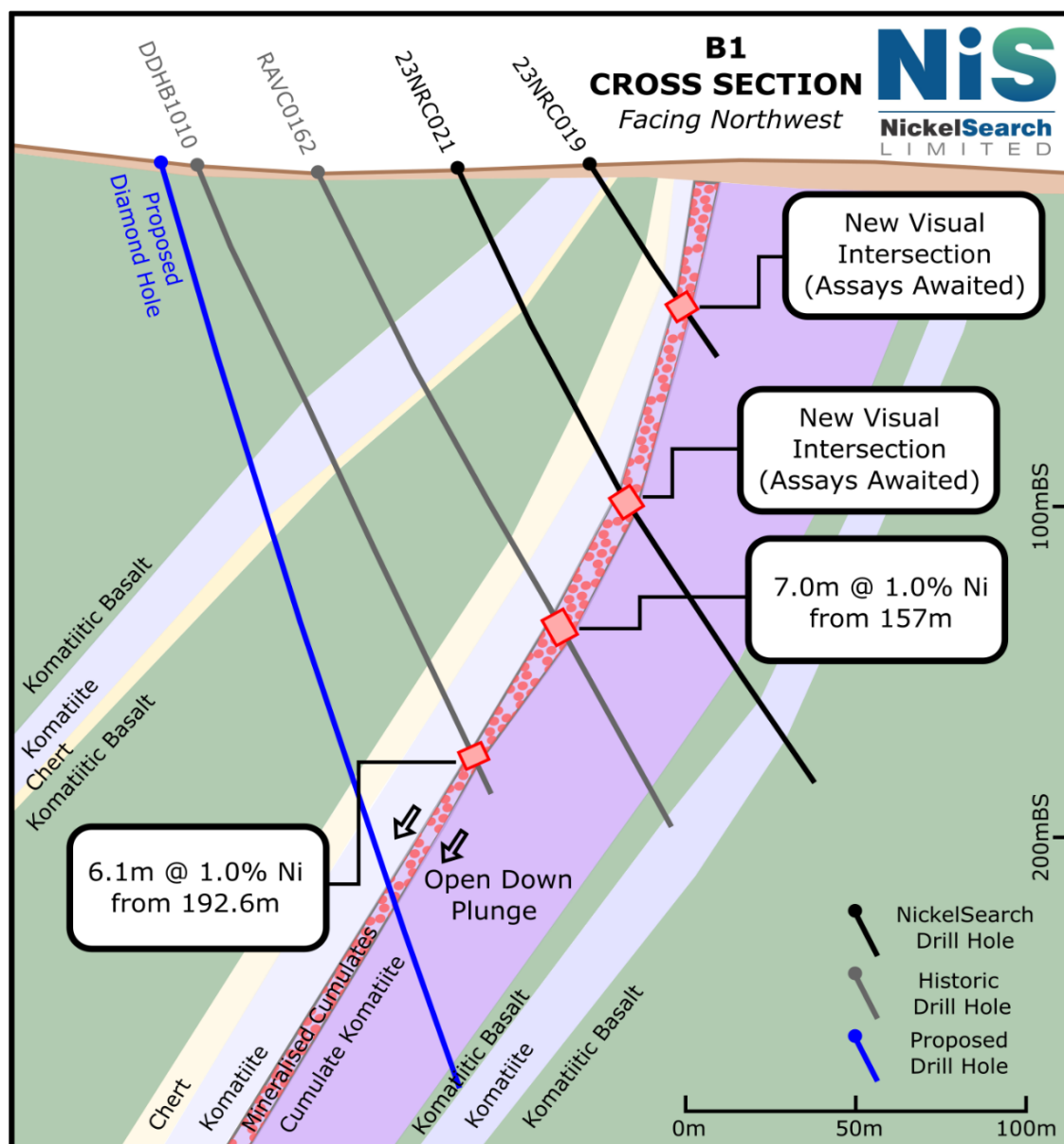


Figure 3: Cross section of relevant intersections at B1, showing historical drilling, recent NIS drilling and planned diamond drilling.

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NEXT STEPS -- RAV8

The open pit and underground nickel sulphide mine at RAV8 produced 468,131t at 3.45% Ni for 16,129t of contained Ni between 2000 and 2007 (for further information, refer to the NickelSearch Prospectus dated 23 August 2021).

RAV8 remains a key exploration target, with down plunge extensions and structural repeats of mineralised shoots also likely to be high grade.

NickelSearch will be drilling at RAV8 during the coming wet months (July – September), which is a time when drilling at other nickel sulphide targets may not be possible due to adverse ground conditions.

This announcement has been approved for release by the Board of NickelSearch Limited.

Enquiries:

Nicole Duncan
Managing Director
NickelSearch Limited
information@nickelsearch.com

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COMPETENT PERSON STATEMENT:

The information contained within this announcement on the historic massive sulphide intersection at Sexton is extracted from the announcement titled “Multiple Exploration Targets Prioritised” released 16 May 2022, which is available to view on www.nickelsearch.com. The Company confirms that it is not aware of any new information or data that materially affects the information included in the original announcement. 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.

The information in this announcement that relates to exploration targeting and results is based on, and fairly represents, information compiled and reviewed by Ian Pryor, who is a consultant to NickelSearch, and is a Member of The Australian Institute of Geoscientists. Mr Pryor has sufficient experience which is relevant to the style of mineralisation and type of deposits 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 2012). Mr Pryor consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

FORWARD-LOOKING STATEMENTS:

This announcement contains certain forward-looking statements. Often, but not always, forward looking statements can generally be identified by the use of forward-looking words such as “may”, “will”, “except”, “intend”, “plan”, “estimate”, “anticipate”, “continue”, and “guidance”, or other similar words and may include, without limitation, statements regarding plans, strategies and objectives of management. Indications of, and guidance on future earnings, cash flows, costs, financial position, and performance are also forward-looking statements. Forward looking statements, opinions and estimates included in this announcement are based on assumptions and contingencies which are subject to change, without notice, as are statements about market and industry trends, which are based on interpretation of current market conditions. Forward looking statements are provided as a general guide only and should not be relied on as a guarantee of future performance. Forward looking statements may be affected by a range of variables that could cause actual results or trends to differ materially. These variations, if materially adverse, may affect the timing or the feasibility and potential development of NickelSearch’s exploration activities.

About NickelSearch

NickelSearch Limited (ASX code: NIS) is a dedicated WA nickel sulphide explorer focused on advancing its flagship Carlingup Nickel Project.

The Project has an existing resource base totalling 155kt contained nickel and is strategically located in the same greenstone corridor as IGO's Forrestania nickel mining complex, and adjacent to First Quantum Minerals' Ravensthorpe Nickel Operation.

Directors & Management

Nicole Duncan

Managing Director

Mark Connelly

Non-Executive Chair

Paul Bennett

Non-Executive Director

Lynda Burnett

Non-Executive Director

Norm Taylor

Non-Executive Director

NickelSearch

ACN 110 599 650

Projects

Carlingup Nickel Project
(100%)

Shares on Issue

104,264,018

Options

13,250,817

ASX Code

NIS



Highly prospective tenure covering **+10km strike**



Multiple high priority, **drill-ready** resource extension targets



Proven high grade nickel production of **16.1kt Ni at 3.45%**



Significant, shallow resource base open in most directions



Strategically positioned next to major nickel mining & processing hubs

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