

Hawsons Enters into a Collaborative Research Project with CSIRO

Highlights

- Hawsons Iron Limited (**Hawsons** or **the Company**) has entered into a collaborative research project through CSIRO's Kick-Start Program, focusing on:
 - optimising pelletisation of Hawson's magnetite concentrate; and
 - understanding the mineralogy of the non-magnetic iron stream with a view to developing a secondary product recovery strategy.
 - CSIRO's Kick-Start Program will co fund 50% of the study cost (ie \$48,750).
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Hawsons is pleased to advise that it has commenced a collaborative research project with CSIRO, Australia's national science agency, with financial assistance provided through its Kick-Start Program.

CSIRO's Kick-Start Program is an initiative for innovative Australian businesses providing matched funding support and access to CSIRO's research expertise and capabilities, helping them grow and develop their ideas. Hawsons has been approved for a \$47,850 Kick-Start Program voucher and the work is expected to take 4 months to complete.

This two-part project aims to:

1. Provide further confidence in the physical and metallurgical properties of pellets that can be manufactured from Hawson's Magnetite concentrate through:
 - a) A suite of balling tests to optimise the binder addition and quality assessment of the green pellets;
 - b) A suite of preheating and roasting tests to optimise the firing profile of the green pellets and assessment of preheated and fired pellet strength; and
 - c) confirming the firing profile at a larger scale to provide sufficient sample for physical and metallurgical characterisation of the pellets as a Blast Furnace and Direct Reduction shaft burden.
2. Determine the chemical and mineralogical properties of the non-magnetic iron content contained within the tails fraction. Specifically, the work is designed to determine:
 - a) the main Fe-bearing mineral reporting to the tails;
 - b) the degree of liberation of the Fe-oxide in the tails and the associated gangue minerals; and
 - c) the deportment of phosphorus (and other impurity elements) in the fraction.



Hawsons CEO, Tom Revy, commented: *"We are delighted to be collaborating with the CSIRO and their expert team. Whilst modest in monetary terms, these studies are very important to Hawsons' investigations into potential saleable hematite by-products, and the continued discussions with potential offtakers in regards the use of Hawsons' quality concentrate in high-value green pellets".*

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This announcement is authorised by the Board.

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