

## NMG: Nickel Mountain Group successfully completes first round of optimisation tests for Rönnbäcken Nickel Project

Nickel Mountain Group AB (publ) (OSE: NMG) is pleased to provide the following update on the results of the first 8 flotation tests for process optimisation.

## **Highlights:**

- The tests indicate that costs can be reduced by flotation at natural pH for most of the process stages; this represents a significant reduction in processing costs.
- Two stage milling and flotation has been demonstrated to improve flotation selectivity by 2.9 times compared to one stage milling as used in previous tests.
- The generation of a 30%Ni concentrate grade from the primary mill/float stage is feasible. This allows the secondary mill/float stage the latitude and flexibility to be optimised entirely for the character of feed it is receiving.

By using natural pH in rougher flotation and in the first stages of cleaner flotation significant cost savings can be achieved compared to previous estimations. The use of natural pH in flotation also has significant environmental benefits as it reduces the amount of chemicals in the flotation process and hence the requirements associated with transportation and storage.

From a processing perspective the introduction of an intermediary flotation step to treat primary mill product in a production plant environment will allow better control of gangue and magnesium-bearing minerals.

In a production plant a two-stage milling circuit will be used to obtain the fine grind required of 80%-50µm. For convenience, laboratory test work to date has used a single stage mill. This is known to be inefficient when grinding to less than 75µm and it was suspected that gangue and magnesium-bearing host rock were being overground and thereby significantly raising their floatability – a situation which may not be realistic on a production scale.

Test work showed this to be the case. Relative to one-stage grinding to 80%-50µm, primary grinding to 50%-75µm reduces gangue and magnesium floatability and improves nickel selectivity by 2.9 times. In turn, this aids the control of gangue and magnesium-bearing host rock in the secondary mill/float stage.

For and on behalf of the Board of Directors of Nickel Mountain Group AB:

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