



NEWS RELEASE

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Baffinland Reports Outstanding Sinter Test Results

January 27 2010 - Toronto, Ontario – Baffinland Iron Mines Corporation (TSX: BIM) (“Baffinland” or the “Company”) reports today outstanding sinter test results. The results are laboratory-based testwork on sampled material from the Company’s fine iron ore trial cargo shipped to ThyssenKrupp Steel (“TKS”) in October 2008.

Studien Gesellschaft für Eisenerz-Aufbereitung (“SGA”) conducted a series of laboratory based pot grate sintering tests to evaluate the productivity of increasing amounts of Mary River sinter fines in a standard sinter mix used in European blast furnace operations. The mixture is very similar to the sinter mixture used in the TKS sinter plant trial, as discussed in a news release issued April 20, 2009.

Results were exceptional with productivity consistently increasing the more Mary River fine iron ore was added to the mixture.

Mary River Fines (%)	Productivity Result (tonnes/metres ² /24 Hrs.)	Productivity Increase (%)
Reference (0%)	34.9	-
10%	36.6	4.9%
30%	37.2	6.6%
50%	43.2	23.8%
100%	48.6	39.3%

The productivity increase with 10% Mary River fine iron ore in the sinter mixture was almost 5%; similar to the result achieved by TKS in its consumption of the fine iron ore trial cargo. Productivity increased, with each addition of Mary River fine iron ore, to approximately 24% with 50% Mary River fines iron ore content in the sinter mixture.

The exceptional characteristics of the Mary River fine iron ore were proven in the sinter testwork at TKS and SGA. Importantly, the average grain size (HS-50) of the trial cargo was greater than 3 mm in size, and it is expected to be one of, if not, the coarsest fine iron ores available. The outstanding quality is demonstrated by a stand-alone test of 100% Mary River fine iron ore that saw a productivity increase of more than 39%, when compared to the reference mixture. In each test, the quality of the sinter produced remained high.

The sinter mixture consists of fine iron ores and concentrates from Brazil, Canada, Australia and Mauritania. These fine ores are added to blast furnace return fines (recycled material), limestone, olivine and sand to form a sinter mixture. The sinter mixture is added to water, coke breeze and additional return fines to form a sinter with specific planned iron content and chemistry. The reported productivity result is an average of three to four sinter tests. Each sinter sample undergoes specific physical and metallurgical testwork to examine quality of the sinter.

“Baffinland’s Mary River fine and lump iron ore are exceptional blast furnace feeds and will become one of the world’s premier iron ore sale products when we come into production.” stated Michael Zurowski, Executive Vice President of Baffinland.



Representative samples taken at regular intervals from the crusher and fine iron ore from the 2008 bulk sampling program were shipped from the Mary River site to SGA in Germany, where they are composited and analysed for detailed metallurgical testing to ISO standards for iron ore. The analytical testwork is supervised and interpreted by Michael T. Zurowski, P. Eng., a Qualified Person as defined by National Instrument 43-101.

Baffinland is a Canadian publicly-traded junior mining company that is focused on its wholly-owned Mary River iron ore deposits located on Baffin Island, Nunavut Territory, Canada. Baffinland's shares trade on the Toronto Stock Exchange under the trading symbol BIM.

FOR FURTHER INFORMATION:

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Forward-looking information is based on certain factors and assumptions regarding, among other things, expected mineral resources, iron ore prices, the timing and amount of future exploration expenditures, the estimation of additional capital requirements, the availability of necessary financing and materials, the receipt of necessary regulatory approvals, the feasibility of constructing and operating a direct-shipping iron ore mine at the Company's Mary River project and assumptions with respect to environmental risks, title disputes or claims, weather conditions and other similar matters. While the Company considers these assumptions to be reasonable based on information currently available to it, they may prove to be incorrect.

Forward looking-information is subject to certain factors, including risks and uncertainties that could cause actual results to differ materially from what is currently expected. These factors include risks inherent in the exploration for and development of mineral deposits, risks relating to changes in iron ore prices and changes in the worldwide demand for and supply of iron ore, uncertainties inherent in the estimation of mineral reserves and resources, risks relating to the remoteness of the Mary River Property including access and supply risks, reliance on key personnel, construction and operational risks inherent in the conduct of mining activities, regulatory risks, including risks relating to the acquisition of necessary licenses and permits, financing, capitalization and liquidity risks, including the risk that the financing required to fund all currently planned exploration and related activities may not be available on satisfactory terms, or at all, environmental risks and insurance risks.

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