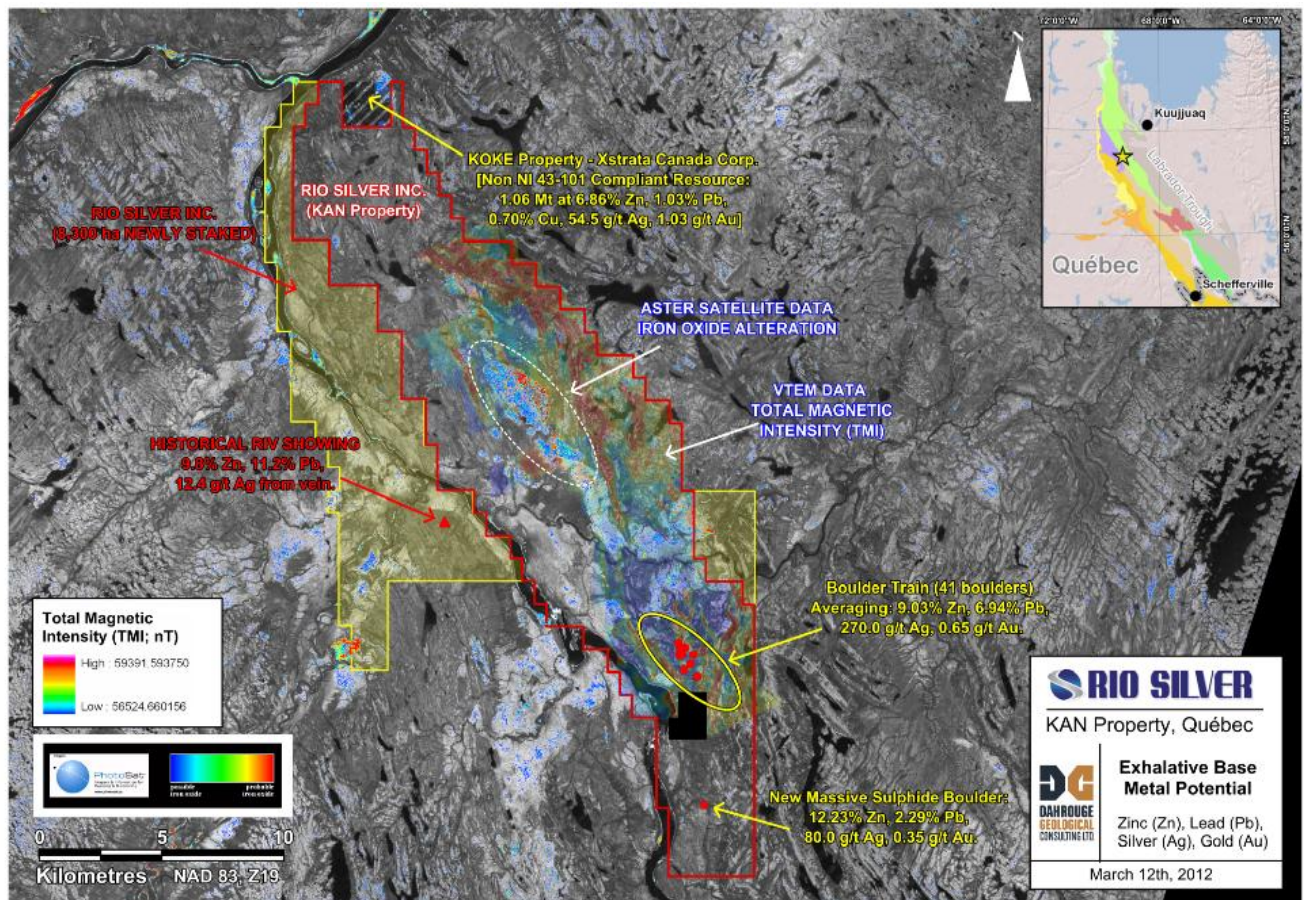




Rio Silver Stakes Additional 8,300 hectares at the KAN Project in Northern Québec

March 12, 2012, Toronto, Ontario, Canada – Rio Silver Inc. (the "Company") (TSX.V: RYO) has staked an additional 8,300 hectares at the KAN project located in the northern part of the Labrador Trough, Nunavik Territory, Québec. The KAN project is an emerging exploration district covering approximately 30,000 hectares of highly prospective stratigraphy over 35 kilometres of strike length.

The additional claims were staked to cover prospective zinc-lead-silver targets identified following the sedimentary exhalative geological model and to include the historical RIV surface showing (11.2 % lead, 9.8 % zinc and 12.4 g/t silver) reported by Kennecott Canada Inc. The Company is currently permitting the proposed 2012 diamond drill program and has requested a proposal to expand the VTEM survey to cover the additional claims staked in 2012.



QA/QC protocols

A strict quality assurance/quality control program was applied to all samples taken by the Company, which includes mineralized standards and blank samples for each batch of 30 samples. All samples taken by the Company were sent to ALS Chemex in Val d'Or, Québec, an accredited commercial laboratory. The gold analyses were completed by fire assay with an atomic absorption finish on 30 grams of material. T. John Magee, P.Geo., President and CEO of the Company is the Qualified Person who has reviewed and is responsible for the technical data contained in this news release.

ON BEHALF OF THE BOARD OF DIRECTORS OF
RIO SILVER INC.

T John Magee
Director

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This news release includes forward-looking statements that are subject to risks and uncertainties. All statements within, other than statements of historical fact, are to be considered forward looking. Although the Company believes the expectations expressed in such forward-looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results or developments may differ materially from those in forward-looking statements. Factors that could cause actual results to differ materially from those in forward-looking statements include market prices, exploitation and exploration successes, continued availability of capital and financing, and general economic, market or business conditions. There can be no assurances that such statements will prove accurate and, therefore, readers are advised to rely on their own evaluation of such uncertainties. We do not assume any obligation to update any forward-looking statements.

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