

## FRONTIER RARE EARTHS LIMITED

### Frontier appoints SNC-Lavalin as lead engineering consultants for the Preliminary Economic Assessment on the Zandkopsdrift rare earth project

**Toronto, Ontario, April 28, 2011**

Frontier Rare Earths Limited (TSX: FRO) (TSX: FRO.WT) (“Frontier” or the “Company”) is pleased to announce that it has appointed the SNC-Lavalin Group Inc. (“SNC-Lavalin”) as lead engineering consultants for the Preliminary Economic Assessment (“PEA”) that is being undertaken on the Company’s Zandkopsdrift rare earth project (“Zandkopsdrift”) in South Africa. Zandkopsdrift is recognised as one of the largest rare earth deposits in the world measured under international reporting standards. The Zandkopsdrift B Zone, which is estimated to contain circa 450,000 tonnes of total rare earth oxides (“TREO”) <sup>(1)</sup>, has the highest TREO grade and the highest grade of high value heavy rare earth oxides (“HREO”) <sup>(2)</sup> of significant advanced rare earth deposits <sup>(3)</sup> worldwide outside China after Molycorp’s Mountain Pass and Lynas’ Mount Weld projects.

SNC-Lavalin are one of the world’s leading engineering and construction groups and are a leader in consulting, design, engineering and construction of processing and infrastructure facilities for the mining industry. In addition to their substantial practices in Canada and South Africa, both of which will be working on the Zandkopsdrift PEA, SNC-Lavalin have offices in over 35 other countries and are currently working in some 100 countries worldwide.

SNC-Lavalin will work closely with Frontier’s other principal consultants already engaged on the Zandkopsdrift project, including SGS Minerals Services of Lakefield, Ontario, who are the lead metallurgical consultants, and The MSA Group, who are responsible for geology and mineral resource estimation.

**James Kenny, Frontier’s CEO commented:** “We are very pleased to have appointed SNC-Lavalin to our project team and believe that this represents another important step in the development of Zandkopsdrift. We have an aggressive work programme in place and remain on schedule to complete a Preliminary Economic Assessment on Zandkopsdrift by end Q3 2011.”

#### Notes

(1) TREO = total rare earth oxides and includes the elements lanthanum to lutetium expressed as trivalent oxides

(2) HREO = heavy rare earth oxides; high value HREOs are Europium, Terbium and Dysprosium

(3) Significant advanced deposits are those with >200,000 tonnes TREO under SAMREC, JORC, CIM or equivalent international codes

For further information visit [www.frontierrareearths.com](http://www.frontierrareearths.com) , e-mail the Company at IR@frontierrareearths.com or **contact James Kenny, CEO, at +352 208 80249.**

#### About Frontier Rare Earths Limited (TSX: FRO) (TSX: FRO.WT)

Frontier Rare Earths Limited is a mineral exploration and development exclusively focused on the development of rare earths projects in Southern Africa. Frontier’s flagship asset is the Zandkopsdrift rare earth project (95% economic interest held), which is located in the Northern Cape Province of South Africa and is one of the largest undeveloped rare earth deposits worldwide. The Zandkopsdrift B Zone has the highest TREO <sup>(1)</sup> grade and the highest grade of high value HREOs <sup>(2)</sup> of significant advanced deposits <sup>(3)</sup> outside China after Molycorp’s Mountain Pass and Lynas’ Mount Weld projects. Zandkopsdrift’s favourable location is expected to provide significant advantages in relation to

capital costs, operating costs and development time compared to other rare earth projects currently being evaluated, and leaves Frontier well positioned to become one of the early significant new producers of rare earths outside China. Frontier filed a NI 43-101 report on Zandkopsdrift in October 2010, which included a resource estimate of circa 43m tonnes containing 950,000 tonnes TREO applying a 1% cut-off, of which 56% is in the Indicated Resource category.

Frontier is well funded with approximately \$52m cash and no debt and this strong working capital position will finance the proposed work programme of the Company and the expected completion of a Preliminary Economic Assessment, Preliminary Feasibility Study and Definitive Feasibility Study on Zandkopsdrift by the end of 2012. Frontier listed on the main board of the Toronto Stock Exchange in November 2010 and currently has 89,562,781 shares outstanding.

### **Forward-looking Information**

Forward Looking Statements – Certain information set forth in this news release may contain forward-looking statements that involve substantial known and unknown risks and uncertainties. These forward-looking statements are subject to numerous risks and uncertainties, certain of which are beyond the control of the Company, including, but not limited to the impact of general economic conditions, industry conditions, commodity prices, availability of financing, results of feasibility studies and dependence upon regulatory approvals. Readers are cautioned that the assumptions used in the preparation of such information, although considered reasonable at the time of preparation, may prove to be imprecise and, as such, undue reliance should not be placed on forward-looking statements.