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FOR IMMEDIATE RELEASE

Great Western Minerals Group Announces Second Quarter 2014 Conference Call and Webcast

SASKATOON, SK, Canada, August 4, 2014 – Great Western Minerals Group Ltd. ("GWMG" or the "Company") (TSX.V: GWG / OTCQX: GWMGF), a leader in the manufacture and supply of rare earth element-based metal alloys and holder of a low cost, high-grade critical rare earth element mineral property in the Western Cape province of South Africa, announced that it will release its second quarter 2014 financial results after the closing of financial markets on Wednesday, August 13, 2014.

The Company will host a conference call and webcast to review its results, key market initiatives and business strategy.

Second Quarter 2014 Conference Call and Webcast

Thursday, August 14, 2014

11:00 a.m. Eastern Time / 9:00 a.m. Mountain Time

Phone: (201) 689-8471 (no pass code needed)

Internet Webcast: www.gwmg.ca

An archive of the call will be available from 2:00 p.m. ET on the day of the call until Thursday, August 21, 2014. To listen to the archived call, dial (858) 384-5517, and enter conference ID number 13585619. An archive of the webcast will be available on the Company's website at www.gwmg.ca, along with a transcript once available.

About GWMG

Great Western Minerals Group Ltd. is a leader in the manufacture and supply of rare earth element—based metal alloys. Its specialty alloys are used in the battery, magnet and aerospace industries. Produced at the Company's wholly-owned subsidiary, Less Common Metals Limited in Ellesmere Port, U.K., these alloys contain transition metals, including nickel, cobalt, iron and rare earth elements. As part of the Company's vertical integration strategy, GWMG also holds 100% equity ownership in Rare Earth Extraction Co. Limited, which controls the Steenkampskraal monazite mine in South Africa. The Company also holds interests in three rare earth exploration properties in North America that are not active.

The Company routinely posts news and other information on its website at www.gwmg.ca.

For more information contact:

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Email inquiries can also be made to info@gwmg.ca.

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Neither the TSX Venture Exchange nor its Regulation Services Provider (as that term is defined in the policies of the TSX Venture Exchange) accepts responsibility for the adequacy or accuracy of this release.

Cautionary Statements

Certain information set out in this News Release constitutes forward-looking information. Forward-looking statements (often, but not always, identified by the use of words such as "expect", "may", "could", "anticipate" or "will" and similar expressions) may describe expectations, opinions or guidance that are not statements of fact and which may be based upon information provided by third parties. Forward-looking statements are based upon the opinions, expectations and estimates of management of GWMG as at the date the statements are made and are subject to a variety of known and unknown risks and uncertainties and other factors that could cause actual events or outcomes to differ materially from those anticipated or implied by such forward-looking statements. Those factors include, but are not limited to; the assumptions and estimates in the Feasibility Study of the Steenkampskraal Project proving to be accurate over time; the construction, commissioning and operation of the proposed monazite processing facility within estimated parameters; mine refurbishment activities; reliance on third parties to meet projected timelines and commencement of production at Steenkampskraal; reliance on third parties to separate mixed rare earth materials; risks related to the receipt of all required approvals including those relating to the commencement of production at the Steenkampskraal mine, delays in obtaining permits, licenses and operating authorities in Canada, South Africa and the United Kingdom, environmental matters, water and land use risks; risks associated with the industry in general, commodity prices and exchange rate changes, operational risks associated with exploration, development and production operations, delays or changes in plans, including those estimated in the preliminary economic assessment of the Steenkampskraal project; risks associated with the uncertainty of resource estimates; health and safety risks; uncertainty of estimates and projections of production, costs and expenses; risks that future Hoidas Lake or Steenkampskraal and region exploration results may not meet exploration or corporate objectives; the adequacy of the Company's financial resources and the availability of additional cash from operations or from financing on reasonable terms or at all; political risks inherent in South Africa; risks associated with the relationship between GWMG and/or its subsidiaries and communities and governments in Canada and South Africa, radioactivity and related issues, dependence on one mineral project; loss of, and the inability to attract, key personnel; the factors discussed in the Company's public disclosure record; and other factors that could cause actions, events or results not to be as anticipated. In light of the risks and uncertainties associated with forward-looking statements, readers are cautioned not to place undue reliance upon forward-looking information. Although GWMG believes that the expectations reflected in the forward-looking statements set out in this press release or incorporated herein by reference are reasonable, it can give no assurance that such expectations will prove to have been correct. Except as required by law, GWMG does not assume any obligation to update forward looking statements as set out in this news release. The forward-looking statements of GWMG contained in this News Release, or incorporated herein by reference, are expressly qualified, in their entirety, by this cautionary statement and the risk factors contained in GWMG's Annual Information Form available at www.sedar.com.