



## NEWS RELEASE DISCLOSURE

### GREAT WESTERN MINERALS GROUP UPDATES TRUE BLUE REE EXPLORATION PROGRAM

**July 20, 2010 - Saskatoon, Canada.** Great Western Minerals Group ("GWMG" or the "Company", TSX:V – GWG) is pleased to provide an update on the work to date on the Rare Earth Element (REE) exploration program on the True Blue Property located 55 km south of Ross River, Yukon.

Under the terms of the Option Agreement with True North Gems Inc. (TGX), GWMG has an option to acquire up to a 65% working interest in TGX's True Blue property and Area of Interest in exchange for carrying TGX through to completion of a bankable feasibility study.

During the first month of the exploration program work has progressed as follows:

- Staked an additional 207 claims to cover the entire host syenite and its metamorphic aureole which encompasses most of the Area of Influence. The total claim holding is now 301 claims.
- Stream sediment samples have been collected at the base of the mountains from all active streams that drain the old and new claim blocks.
- Chip sampling and soil sampling along talus slopes below reported mineralization is ongoing. These samples have been collected below the reported Shark Bowl, Gill, Fin, Garnet Allanite (Camp or Ukon #5), Ukon #1, Ukon #3, Ukon #4, Ukon #8, Ukon REE #1, Ukon REE #2, Ukon REE #3 and Verley Showings.
- Prospecting and geological mapping of the known showings is ongoing.
- The geochem samples have been shipped for analysis to Acme Labs in Whitehorse and the results are expected by early August.
- New Sense Geophysics Ltd. has begun a 970 kilometer helicopter-borne aeromagnetic and spectrometric survey.

John Pearson, Vice-President, Exploration with Great Western Minerals Group said, "The Airborne geophysical survey and the stream sediment and heavy mineral concentrate samples will allow us to identify new areas of mineralization while the prospecting, geology and soil surveys will aid in delineating and evaluating the known zones of mineralization. We expect to have the first set of geochemical analysis back in early August which will allow us time to follow up any new anomalies."

John Pearson, MSc, PGeo, Vice-President Exploration for GWMG, is the qualified person responsible for reviewing the contents of this news release.

Jim Engdahl  
President and CEO

Great Western Minerals Group Ltd. is an integrated Rare Earths producer. Its specialty alloys are used in the battery, magnet and aerospace industries. Produced at the Company's wholly-owned subsidiaries Less Common Metals Limited in Birkenhead, UK and Great Western Technologies Inc. in Troy, Michigan, these alloys contain aluminum, nickel, cobalt and Rare Earth Elements. As part of the Company's vertical integration strategy, GWMG holds an option with respect to the former Rare Earths producing Steenkampskraal mine in South Africa as well as seven Rare Earth exploration and development properties in North America.

For further information, please contact Dwight Percy, Manager of Investor Relations at (306) 659-4500. Email inquiries should be made to [info@gwmg.ca](mailto:info@gwmg.ca). The Company's website is at [www.gwmg.ca](http://www.gwmg.ca). Inquiries by direct mail should be addressed to Great Western Minerals Group Ltd., 226 Cardinal Crescent, Saskatoon, SK S7L 6H8.

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