

# Global Battery Metals Completes Detailed Remote Sensing and Structural Study of Knockeen Dike Swarm and Regional Leinster Lithium Project Area

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Study Identifies 2nd Major Shear Zone and 25 Additional Exploration Targets as Company Confirms Set of Eight Initial Drill Hole Assays to be Reported

Vancouver, October 16, 2023 - [Global Battery Metals Ltd.](#) (TSXV: GBML) (OTCQB: REZZF) (FSE: REZ) (the "Company" or "GBML" or "Global Battery Metals"), an international critical mineral exploration company focused on growth-oriented lithium and battery metal projects, is pleased to announce a structural remote sensing study of the Leinster Lithium District has been completed with 25 new exploration targets identified by local structural geology expert, Dr. Francis Murphy of Murphy Geological Services. A first-of-its-kind comprehensive study for this region, GBML believes this study - in association with the ongoing development of a 3D spatial model of the dike swarm and associated structures being drilled at Knockeen PL1597 - will help guide additional near-term pegmatite dike identification and future drilling efforts, while supporting further project-wide lithium exploration and target generation.

## Key Highlights:

- Drilling continuing as per plan at the Lithium-Cesium-Tantalum (LCT) pegmatite dike swarm at Knockeen Prospect with drill holes 1-8 completed for a total of 1,597m with assays pending and drill hole 9 currently in progress.
- Comprehensive regional structural synthesis has now been completed for the whole of the Leinster pegmatite belt with detailed focus on the Company's northern and southern block of licences.
- Structural controls and the spatial location of the key East Carlow Deformation Zone (ECDZ) and associated splay structures have now been identified and shown to cross several key parts of the northern and southern block of licences.
- Accurate definition of key structural corridors through the Company's five main target areas at Aghavannagh, Scurlocks, Sorrell, Knocknaboley and Tonygarrow now confirms the genetic association of these structures with the mineralization discovered to date, as well as extends the corridors for further exploration targeting.
- A major NE-SW trending regional splay of the ECDZ, termed the North Wexford Deformation Zone (NWDZ) which has been historically mapped in the area, has now been confirmed and demarcated across areas of PL 1597.
- In total, 25 distinct follow-up structural targets have been identified, including four additional targets on PL 1597 and 21 new targets on the northern licence block all based on the holistic geological, structural, geophysical and geochemical studies. These areas will be prioritized over the coming months.

## Remote Sensing Structural Study

GBML defined a 6,000 km<sup>2</sup> study area covering the Company's northern and southern license blocks, including the Knockeen Prospect lithium drill program area. Structural analysis work included utilizing Sentinel-2 satellite imagery which provides a substantial resolution increase that more than doubles that of other satellites. This work was combined with other GIS datasets including the Geological Survey of Ireland (GSI) Tellus Aeromagnetic data; detailed GSI bedrock mapping data, historical regional GSI geochemistry as well as in-house company GBML-LRH prospecting and lithogeochemistry data.

The results of the combined study have confirmed key structural features across the Leinster Massif which are interpreted to be associated with mineralizing fluid flow key to the anatectic model for the localization and emplacement of the lithium bearing pegmatites. The primary East Carlow Deformation Zone (ECDZ) is

shown to transect several of the northern block licenses and in particular the Tonygarrow and Aghavannagh targets. Interpreted splays from this structure pass across several other of the Company's licenses and in particular through the Scurlocks, Sorrell and Knocknaboley target areas. The work has also provided extensions of all of these structural corridors which can now become part of a focused ground exploration program.

On the southern block a historic, partially mapped structural feature passing along PL 1597 has now been confirmed through this study. It can now be interpreted as a significant structural splay off the primary East Carlow Deformation Zone and passes south of the Blackstairs Granite Pluton. This feature has been termed the North Wexford Deformation Zone (NWDZ) and provides a second highly prospective trend for the focus for ground exploration activities. Several target areas have already been identified for detailed prospecting and mapping.

#### Knockeen Drilling Program

To date, GBML has completed eight drill holes (DDH-23-1597-01 - DDH-23-1597-08) for a total of 1,761m, with a ninth drill hole (DDH 23-1597-09) currently in progress (estimated final depth of 250m). Multiple phases of pegmatite and importantly the lithium bearing spodumene pegmatites have been intersected in all of the holes so far. Logging and sampling of the holes is in progress with some of the sampled intervals currently at the laboratory with others still being processed. All of the data and results of the initial eight drill holes will be synthesized and reported together, allowing for a full, proper and considered interpretation of the intersections and providing for a more holistic view of the dike swarm's geometry.

Detailed structural data is being collected from the drill core by using state of the art Reflex EZ-Trac Single Shot down-hole core orientation tool on the drill rig. Once back at the core logging facilities, the orientated core from the drill rig is then logged for its structural components with an IMDEX STRUCTURAL-IQ&TRADE; Solution tool as part of the core logging process. This approach means that the pegmatites and their exact orientations can be positioned with all of the other structural components relating to the emplacement of the pegmatite dike swarm. So far, over 5,000 structural elements have been recorded to be imported into Seequent's 3D modelling software package, LeapFrog. This will help to better visualize the detailed structural regime and kinematics of the pegmatite dikes in the area being drilled, as well as the geometry of the various phases of pegmatites. Petrographic analysis of samples of lithologies, mineralization and alteration from within the drill core is also in progress to help interpret the metallogenetic development of the mineralizing system.

"GBML will continue to utilize impact players and proven industry experts that can maximize shareholder interests and dramatically increase the potential for mineralized zone discovery," said Michael Murphy, CEO of Global Battery Metals. "The structural analysis included in this report will help us to not only understand and advance our big-picture lithium district potential, but also highlight more immediate opportunity spots of interest. Top-notch structural interpretation is key to unlocking long-term target development and drilling success. I'm also pleased to report that the team is opting to release initial assay results from our first eight holes to date, pending completion of lab analysis. We now have a much stronger picture of the dike swarm and lithium mineralization potential."

Field work will be planned to develop and enhance the structural models including ground verification of the geometry and kinematics of the major and second order faults and shears identified from the satellite imaging. This will tie in with the structural work being completed on the drill core at Knockeen.

#### About the Leinster Lithium Project

Located south of Dublin in the counties of Wicklow and South Carlow, the Leinster Lithium Project consists of 16 prospecting license areas covering approximately 525 km<sup>2</sup> situated along strike to the joint Ganfeng Lithium / [International Lithium Corp.](#) Blackstairs Lithium Project. The Company's ongoing drill program at Knockeen has been approved under the government's detailed "appropriate assessment screening" process for up to 10 drill holes for a total of approximately 2,000m.

With initial drilling underway, GBML has succeeded in intersecting multiple dikes within the host granites to reveal a structurally controlled LCT pegmatite system, which importantly includes the lithium mineral spodumene within the pegmatites. The drill cores continue to be logged, sampled and dispatched for

analysis at ALS Laboratories and pending results reporting. No drilling has ever been carried out at the Knockeen Prospect previously, and intersecting potential lithium bearing pegmatites in all of the holes drilled so far is considered a major technical success for the Company. Prior surface exploration activities identified and confirmed expansive surface boulder trains of lithium pegmatite lithologies in a number of areas across the Company's property, with recent assay results of 66 rock samples analyzed by ALS Laboratories earlier this year returning Li<sub>2</sub>O% lithium contents ranging up to 3.75 % Li<sub>2</sub>O / 17,410 ppm Li.

#### Responsibility to the Environment

All mineral exploration activities in Ireland take place under the auspices of the GSRO, a division within the Government Department of the Environment, Communications & Climate Change. Exploration is governed under the framework of both Irish and EU legislation that has been implemented to ensure that the environment is protected during exploratory work. Prospecting licence holders must comply with all of the relevant legislation. The Company is pleased to confirm that it adheres to the highest standards of good practice in relation to its ongoing exploration activities having completed a detailed GSRO "Appropriate Assessment" process prior to commencement which was reviewed, approved and signed off by the appropriate oversight authorities. GBML's Directors understand that social license is key to unlocking positive exploration outcomes by following low impact / low sound / low disturbance exploration program best practice for environmental sensitivity.

#### Competent Person

All scientific and technical information in this announcement has been prepared under the supervision of and reviewed and approved by EurGeol Vaughan Williams, M.Sc., P.Geo., (Principal of Aurum Exploration Services currently providing exploration services to GBML and to LRH Resources Limited ("LRH")), a "qualified person" within the meaning of National Instrument 43-101.

#### Quality Assurance/Quality Control

Quality Assurance/Quality Control of drill core samples and associated assay results are monitored by GBML through a quality assurance/quality control ("QA/QC") protocol which includes the insertion of blind standard reference materials, blanks, and duplicates at regular intervals. Core is drilled in HQ core diameter and each 3 metres of core recovered is orientated by the drilling contractor on completion of each run drilled. Drill core is laid out in strong core boxes and transported by Company geologists from the drill rig to GBML's secure logging facility. Drill core is then logged using an established logging procedure capturing detailed lithological data as well as measuring all structural elements using a Reflex IQ Logger for accurate orientation of all contacts and structures. The core is marked up for sampling and sawn on site using a diamond core saw. Half core samples are then bagged and secured using plastic cable ties and the samples are then securely transported to ALS Laboratory ("ALS") facilities in County Galway, Republic of Ireland. Samples are analyzed for lithium as well as multi- elemental trace elements using the specific LCT pegmatite analytical suite ME-MS89L offered by ALS. ALS also performs its own internal QA/QC procedures to assure the accuracy and integrity of results. GBML is unaware of any drilling, sampling, recovery, or other factors that could materially affect the accuracy or reliability of the data referred to herein.

#### About Global Battery Metals Ltd.

GBML is an international mineral exploration and development company with a focus on lithium and other metals that comprise and support the rapid evolution to battery power. GBML currently maintains economic interests in four battery metal projects: (1) an option to acquire up to a 90% interest in the Leinster Lithium Property and drill program currently underway in Ireland; (2) a 100% interest in the drill-ready Lithium King Property in Utah; (3) an option to acquire up to a 100% interest in the La Poile Lithium Project in Newfoundland; and (4) a 55% stake in Peru-based Lara Copper Property, which has over 10,000 metres of drilling. As previously disclosed, Minsur S.A., a Peruvian mining company, entered into an option agreement with GBML and Lara Exploration Ltd. to acquire the Lara copper property for staged payments of USD\$5.75 million. GBML will retain a 0.75% net smelter royalty. GBML's common shares are listed on the TSX Venture Exchange (TSXV: GBML); Frankfurt Stock Exchange (FSE: REZ); and are quoted on the OTC Markets (OTCQB: REZZF).

[Global Battery Metals Ltd.](#)

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