

# Berkwood Resources Ltd. Reports Excellent Results from Purification (99.95%) and Expandable Graphite Tests

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Vancouver, August 27th 2019 - [Berkwood Resources Ltd.](#) (TSXV:BKR) (Frankfurt: BR2N - WKN: A2DNV4) ("Berkwood" or the "company") is pleased to announce excellent results from recently completed testwork conducted by ProGraphite GmbH ("ProGraphite") in Germany. Berkwood has commissioned ProGraphite to test the company's high-grade flake graphite concentrate from the Lac Gueret South deposit in Northern Quebec, Canada for the production of purified and expandable graphite.

The company ProGraphite GmbH offers professional expertise and a wide range of laboratory services in natural graphite. ProGraphite's laboratory expertise is well recognized in the industry for the determination of flake graphite qualities specific to various end uses. For more information about ProGraphite, please visit: [www.pro-graphite.com](http://www.pro-graphite.com)

The main findings of ProGraphite are:

- The size distribution of the flake graphite in the concentrate shows a coarse flake size, above market standard (based on the two screened samples "Berkwood 20x50" and "Berkwood 50x100").
- Graphitic carbon grade of the tested graphite samples is above 98% Cgr.
- The tested material is very suitable for the production of expandable graphite. Expansion rates of 380 ml/g (H<sub>2</sub>O<sub>2</sub> method) and 390 ml/g (KMnO<sub>4</sub> method) have been achieved easily.
- The carbon content obtained after a standard alkaline purification process was 99.95%.

Tom Yingling, President and CEO states: "We are very pleased with these excellent testwork results from ProGraphite. This report is one of the final pieces of the puzzle that was crucial for Berkwood. The Company knew we have high-grade graphite and large flakes. From the recently announced NI 43-101 resource estimation report, we knew that Berkwood has a substantial amount of it and it is right on surface. One of the last pieces of the puzzle we needed to know was if the graphite is able to be expanded, and, can it be done so very easily using standard methods. Today I am pleased to announce that Berkwood's graphite is expandable. Another significant result is the fact that our graphite concentrate can be easily purified to 99.95%. For Berkwood, this opens up the opportunity to sell our graphite flakes into a wide range of standard and value-added graphite markets."

Based on these encouraging results, ProGraphite draws the following conclusion and recommends further tests: "The results of the production of expandable graphite using both, KMnO<sub>4</sub> or H<sub>2</sub>O<sub>2</sub> as oxidation reagent, showed excellent results with expansion rates well above 350 ml/g. The testwork was done using standard formulations. It is probable, that changes of process parameters (like amount of acids, change of retention time etc.) and perhaps the usage of additional chemicals will lead to even higher expansion rates. ProGraphite recommends to perform further tests for verification. Alkaline purification of the graphite showed excellent results as well. The carbon content obtained after a standard alkaline purification process was 99.95%, which is a very good result."

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What is Expandable Graphite?

Due to the layered structure of highly crystalline natural flake graphite, it is possible to insert molecules between the carbon layers. During this process which is named intercalation, the expanded graphite material takes on new properties. Intercalated graphite flakes with outstanding expansion rates have a high amount of intercalated layers. Most commonly, sulphuric or nitric acid are used as intercalation agents. Under the influence of high temperatures and within several hours, the carbon layers separate and small, several millimetres large "graphite worms" show up. The result is a significant increase in the volume of the graphite of up to 375 times, an overall decrease in bulk density and an approximately a 10-fold increase in surface area.

#### Uses of Expandable Graphite

The worldwide market for expandable graphite is one of the fastest growing markets along with Li-Ion batteries. Over the last couple of years the market has experienced significant price increases. Expandable graphite can be used in many applications including:

Flame retardant

Thermal management in consumer electronics

High end gaskets that are heat and corrosion resistant

Flow batteries and fuel cells

Electrically conductive fillers

Coatings

Automotive Industry

Aerospace

Energy Storage

Wind Energy

Compound Semiconductors

Other products

About Berkwood Resources Ltd.: Berkwood is engaged in exploration for the commodities that enable the modern revolution in essential technologies. These technologies are dependent upon the ethical mining and supply of naturally occurring elements and minerals that enhance the performance of energy storage systems and permit the development and miniaturization of new electronics and structural components for the new suite of innovative tools. The Company is led by a team with collectively over 200 years experience and whose members have been involved with the discovery of several producing mines.

On Behalf of the Board of Directors

[Berkwood Resources Ltd.](#)

'Thomas Yingling'

President, CEO & Director

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