HALIFAX, NOVA SCOTIA / ACCESSWIRE / January 5, 2017 / Elcora Advanced Materials Corp. (TSX-V: ERA) (FRA: ELM) (OTCQB: ECORF) (the "Company" or "Elcora") is pleased to announce that independent testing of Elcora anode graphite has been successful, and that two battery companies are now testing industry standard 18650 cells made with Elcora graphite.

The results of the independent testing, including the particles size distribution of the graphite (Figure 1), the calendar density and tap density.

Image: https://www.accesswire.com/uploads/Elcora1_1.5.2017.jpg
Figure 1: Elcora spherical graphite anode powder size distribution — d_{10} = 9.99 µm, d_{50} = 19.3 µm and d_{90} = 32.3 µm

To view an enhanced version of Figure 1: Elcora spherical graphite anode powder size distribution, please visit: https://www.accesswire.com/uploads/Elcora1_1.5.2017.jpg

The grade of the Elcora purified graphite was determined using PIXE, or proton induced x-ray emission tests, in order to confirm the grade values at the parts per million (ppm) level of accuracy. These results indicate that only chlorine was present at detectable levels. The results are presented below.

Image: https://www.accesswire.com/uploads/ElcoraIMAGE2_1.5.2017.gif
Proton Induced X-ray Emission Test Results (PIXE)

To view an enhanced version of the proton induced x-ray emission test results, please visit: https://www.accesswire.com/uploads/ElcoraIMAGE2_1.5.2017.gif

The very high purity of the graphite places the graphite as chemical grade. This material is suitable for not just lithium ion batteries but also for other niche industries. PIXE analysis can detect element with atomic weight greater or equal to sodium and up to uranium. Analysis was done by an outside 3rd party testing services company with access to a proton source.

The Elcora spheronized graphite was fabricated into standard 18650 cells. Figure 2 shows the process of making the anode for these batteries.

Image: https://www.accesswire.com/uploads/Elcora3_1.5.2017.jpg
Figure 2: Lithium ion battery anode being made from Elcora graphite

Cannot view Figure 2: Lithium ion battery anode being made from Elcora graphite? Please visit https://www.accesswire.com/uploads/Elcora3_1.5.2017.jpg to view this image.

The batteries were cycled; charged and discharged, while tracking their performance. An example of these results is shown in Figure 3.

Image: https://www.accesswire.com/uploads/Elcora5_1.5.2017.jpg
Figure 3: Example of cycle tests results using Elcora anodes in 18650 cells.

To view an enhanced version of Figure 3: Example of cycle tests results using Elcora anodes, please visit: https://www.accesswire.com/uploads/Elcora5_1.5.2017.jpg

As a result of these positive results these batteries are now being tested by two battery companies.

Elcora is, also, progressing on the anode manufacturing plant. A site has now been selected, engineering on the equipment has been completed and all major equipment has been sourced.

"The positive results and the progression of the development to tests performed by potential clients represents a significant progression of Elcora's vertical integration strategy," said Troy Grant, Elcora's President and CEO. "The site selection and preparation work for the anode facility as also a step towards production, revenue and cash flow."

Ian Flint, Ph.D., P.Eng., is the Qualified Person as defined under NI 43-101 who has reviewed and is responsible for the technical information presented in this news release

About Elcora Advanced Materials

Elcora was founded in 2011 and has been structured to become a vertically integrated graphite and graphene company that mines, processes, refines graphite, and produces micro graphite for battery anodes, graphene and end user graphene applications. As part of the vertical integration strategy, Elcora has secured high-grade graphite and graphene precursor graphite from its interest in the operation of the Ragedara mine in Sri Lanka which is already in production. Elcora has developed unique low cost, effective and ecological processes to make high quality graphite and graphene that are commercially scalable. This combination means that Elcora has the tools and resources for graphite and graphene vertical integration.

For further information, please visit the company's website at http://www.elcoracorp.com.

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Investors are cautioned that, except as disclosed in the filing statement prepared in connection with the transaction, any information released or received with respect to the transaction may not be accurate or complete and should not be relied upon.

SOURCE: Elcora Advanced Materials Corp.