Vancouver, British Columbia (FSCwire) - Larry W. Reaugh, President and Chief Executive Officer of American Manganese Inc. (“American Manganese” or the “Company”), (TSX.V: AMY; Pink Sheets: AMYZF; Frankfurt: 2AM), is pleased to announce that the Company has received results on The X-Ray Diffractograms on lithium cobalt oxide ($LiCoO_2$) and cobalt tetraoxide (Co_3O_4) samples produced under different experimental conditions, using American Manganese’s lithium ion battery cathode powder up-cycling process. Up-cycled $LiCoO_2$ compounds were produced by completely leaching $LiCoO_2$ cathode powders, precipitating cobalt and lithium compounds and heat treating the precipitated compounds to regenerate $LiCoO_2$. Similarly the up-cycled Co_3O_4 was produced by completely leaching $LiCoO_2$ cathode powders, selectively precipitating $Co(OH)_2$ from the leach solution and heat treating the precipitated $Co(OH)_2$ to regenerate Co_3O_4.

Quantitative X-Ray diffraction (XRD) was used to characterize the $LiCoO_2$ and Co_3O_4 compounds produced after treatment with the American Manganese process and comparing these compounds with commercial battery grade compounds purchased from a commercial supplier.

X-Ray Diffraction Results from Up-cycled Cathode Materials

Mr. Norm Chow, President of Kemetco says “The X-Ray diffractograms show that the experimental work was successful in proving that 100% LiCoO2 could be produced with the American Manganese lithium ion battery cathode material recycling / up-cycling technology (4 out of 5 experiments showing 100% conversion to $LiCoO_2$, with the 5th experiment showing 95.98% conversion). In addition, the Co_3O_4 produced from the up-cycling of $LiCoO_2$ using the American Manganese process has higher purity (100% Co_3O_4) than the commercial battery grade Co_3O_4 purchased from Sigma Aldrich (97% Co_3O_4).”

Larry Reaugh says “We are currently completing the production of test batteries (button cells), which will confirm proof of concept of the technology and are in the final stages of completing the US Provisional patent application on the technology.”

Table 1 summarizes the quantitative XRD analysis on the $LiCoO_2$ samples. Table 2 summarizes the quantitative XRD analysis on the Co3O4 samples. The X-Ray diffractograms of each sample are provided in Figures 1 to 8. For graphs and tables please click here.

About Kemetco Research Inc.

Kemetco Research Inc. is a privately owned contract research and development company specializing in extractive metallurgy, chemical processing and specialty chemical analysis. It was formed after the acquisition of the industrial process division of B.C. Research, which had been in operation for over 60 years as a research and development contractor in British Columbia.

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About American Manganese Inc.

American Manganese Inc. is a diversified specialty and critical metal company focused on capitalizing on its patented intellectual property through low cost production or recovery of electrolytic manganese products throughout the world, and recycling of spent electric vehicle lithium ion rechargeable batteries.

Interest in the Company’s patented process has adjusted the focus of American Manganese Inc. toward the examination of applying its patented technology for other purposes and materials. American Manganese Inc. aims to capitalize on its patented technology and proprietary know-how to become and industry leader in the recycling of spent electric vehicle lithium ion batteries having cathode chemistries such as: Lithium-Cobalt, Lithium-Cobalt-Nickel-Manganese, and Lithium-Manganese (Please see the Company’s March 31, 2016 press release for further details).

On behalf of Management

AMERICAN MANGANESE INC.

Larry W. Reaugh
President and Chief Executive Officer

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