

# **Dundee Sustainable Technologies Inc.**

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## **NEWS RELEASE**

### **DST ANNOUNCES PRELIMINARY METALLURGICAL TEST WORK RESULTS WITH FORTUNE MINERALS**

MONTREAL, QUEBEC, September 17, 2018 – Dundee Sustainable Technologies Inc. (“DST” or the “Corporation”) (CSE: DST) and Fortune Minerals Limited (TSX: FT) (“Fortune”) are pleased to announce preliminary results from a laboratory scale metallurgical test program utilizing DST’s arsenic treatment approach, on mineralized samples from Fortune’s Nico cobalt-gold-bismuth-copper project (NICO) located in Canada’s Northwest Territories.

The goal of this testing program is to identify the set of conditions for the successful removal and stabilization of arsenic, at a laboratory scale, from the NICO bulk concentrate using a pyrolysis approach in a fluidized bed roaster and DST’s arsenic vitrification technology.

DST successfully removed 99% of the arsenic content and demonstrated that the NICO bulk concentrate material can undergo a pre-treatment to remove arsenic and create a mineral concentrate with levels of arsenic that are acceptable to the market and traditional metal recovery circuits. Using DST thermal decomposition in an oxygen deprived environment approach, the arsenic content was reduced by 99% to below <0.2% arsenic with no cobalt, gold, bismuth and copper losses. Most smelters are limited to about 0.5% arsenic in their feed, results here indicate a product significantly below that at 0.2%, therefore opening up many smelters as potential destination for this concentrate. Metal grades in the arsenic depleted concentrate increased by 20 to 30% due to mass loss from the selective removal of the arsenic via pyrolysis.

The arsenic removed from the NICO concentrate during the test program was successfully stabilized using DST’s patented vitrification approach. A glass product containing over 10% arsenic successfully met the requirements of the U.S. Environmental Protection Agency’s (“EPA”) Toxicity Characterization Leaching Procedure (“TCLP”, Method 1311).

Mr. Brian Howlett, the President and CEO of the Corporation stated, “The management of DST is very pleased with the results to date and look forward to continuing its collaboration with Fortune Minerals. The NICO project is an advanced stage Canadian asset and the technical team at DST continues to work with Fortune on the set of operating conditions that will result in a successful project that will combine arsenic removal with DST’s patented arsenic vitrification process.”

DST continues the commercialization of its cyanide-free gold extraction and arsenic stabilization technologies. DST also provides its technical expertise and facilities to companies wishing to further evaluate the development of their projects using the Corporation laboratory, piloting and/or industrial demonstration facilities on specific projects in need of viable processing capacities, and to initiate engineering studies required for industrial implementations.

Mr. Jean-Philippe Mai, P. Geo., is the Qualified Person who has reviewed, prepared and approved the content of this news release.

## **About Dundee Sustainable Technologies, a company controlled by Dundee Corporation**

The Corporation is engaged in the development and commercialization of environment-friendly technologies for the treatment of materials in the mining industry. Through the development of patented, proprietary processes, DST extracts precious and base metals from mineralized material, concentrates and tailings, while stabilizing contaminants such as arsenic, which could not otherwise be extracted or stabilized with conventional processes because of metallurgical issues or environmental considerations.

DST provides its technical expertise and facilities to companies wishing to further evaluate the development of their projects using the Corporation's laboratory, piloting and/or industrial demonstration facilities on specific projects in need of viable processing capacities, and to initiate engineering studies required for an industrial implementation.

### **FOR FURTHER INFORMATION PLEASE CONTACT:**

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Forward-looking statements are based on the expectations and opinions of the Corporation's management on the date the statements are made. The assumptions used in the preparation of such statements, although considered reasonable at the time of preparation, may prove to be imprecise and, as such, undue reliance should not be placed on forward-looking statements. The Corporation expressly disclaims any intention or obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise, except as required by applicable law.

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