

Arianne Phosphate Exploring The Use Of Its High-purity Concentrate For Alternatively Derived Fertilizers

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the Company is working with Cegep Riviere-de-Loup to develop a new breed of fertilizer

SAGUENAY, Feb. 8, 2022 - Arianne Phosphate (the "Company" or "Arianne") (TSXV: DAN) (OTC: DRRSF) (FRANKFURT: JE9N), a development-stage phosphate mining company, advancing its Lac à Paul project in Quebec's Saguenay-Lac-Saint-Jean region, is pleased to announce that it has initiated a research program in collaboration with the Environmental and Biotechnology Research Group of the Cegep Riviere-de-Loup aimed at the development of a new breed of fertilizers using organic waste and Arianne's high-purity, low-contaminant phosphate concentrate.

Currently, the industry practice is to take mined phosphate concentrate and ship it to a phosphoric acid facility. There, it is combined with sulphuric acid and other ingredients to make 'downstream' phosphate-based fertilizers such as MAP and DAP. By working with both research and commercial organizations, Arianne is looking at ways to alter the traditional process and combine its concentrate with organic waste or other bacteria that would allow its phosphate concentrate to effectively be used in farming without the requirement of traditional acidulated fertilizer products.

"Although the work around the use of Arianne's phosphate concentrate in these types of applications is early, the implications could be enormous," said Brian Ostroff, Arianne Phosphate's President. "For the agricultural industry, it could allow the farmer the ability to move away from acid-based processes and, by integrating with organic waste, allow for a more circular and environmentally-friendly process. Logistically, it would also allow Arianne to be less reliant on downstream facilities to purchase its phosphate and transform it into fertilizers."

Due to the rare geological nature of its Lac à Paul deposit, Arianne will produce a high-purity, low-contaminant phosphate concentrate. By not having the deleterious elements found in most phosphate deposits globally, such as radioactive elements and heavy metals, the Company believes its concentrate will be in high demand, not only by traditional fertilizer producers but also, those who are looking to target high purity agricultural and food applications such as organic fertilizers, food preservatives and animal feeds. Further, due to the nature of Arianne's concentrate, it also makes it well-placed for industrial uses such as its recently announced work (see Press Release dated November 3, 2021) with several automotive industry players on the lithium-iron-phosphate ("LFP") battery.

Qualified Person

Raphael Gaudreault, eng. Qualified Person by NI 43-101, has approved this release. Mr. Gaudreault is also the Company's Chief Operating Officer.

About Arianne Phosphate

Arianne Phosphate ("[Arianne Phosphate Inc.](#)") (www.arianne-inc.com) is developing the Lac à Paul phosphate deposits located approximately 200 km north of the Saguenay/Lac St. Jean area of Quebec, Canada. These deposits will produce a high-quality igneous apatite concentrate grading 39% P₂O₅ with little or no contaminants (Feasibility Study released in 2013). The Company has 185,464,469 shares outstanding.

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Cautionary Statements Regarding Forward Looking Information

This news release contains "forward-looking statements" and "forward-looking information" within the meaning of applicable securities regulations in Canada and the United States (collectively, "forward-looking information"). Forward-looking information includes, but is not limited to, anticipated quality and production of the apatite concentrate at the Lac à Paul project. Often, but not always, forward-looking information can be identified by the use of words such as "plans", "expects", "is expected", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates", or "believes", or the negatives thereof or variations of such words and phrases or statements that certain actions, events or results "may", "could", "would", "might", or "will" be taken, occur or be achieved. Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the actual results, level of activity, performance or achievements of the Company to be materially different from those expressed or implied by such forward-looking information, including but not limited to: volatile stock price; risks related to changes in commodity prices; sources and cost of power facilities; the estimation of initial and sustaining capital requirements; the estimation of labour and operating costs; the general global markets and economic conditions; the risk associated with exploration, development and operations of mineral deposits; the estimation of mineral reserves and resources; the risks associated with uninsurable risks arising during the course of exploration, development and production; risks associated with currency fluctuations; environmental risks; competition faced in securing experienced personnel; access to adequate infrastructure to support mining, processing, development and exploration activities; the risks associated with changes in the mining regulatory regime governing the Company; completion of the environmental assessment process; risks related to regulatory and permitting delays; risks related to potential conflicts of interest; the reliance on key personnel; financing, capitalization and liquidity risks including the risk that the financing necessary to fund continued exploration and development activities at Lac à Paul project may not be available on satisfactory terms, or at all; the risk of potential dilution through the issue of common shares; the risk of litigation. Forward-looking information is based on assumptions management believes to be reasonable at the time such statements are made, including but not limited to, continued exploration activities, no material adverse change in commodity prices, exploration and development plans proceeding in accordance with plans and such plans achieving their stated expected outcomes, receipt of required regulatory approvals, and such other assumptions and factors as set out herein. Although the Company has attempted to identify important factors that could cause actual results to differ materially from those contained in the forward-looking information, there may be other factors that cause results not to be as anticipated, estimated or intended. There can be no assurance that such forward-looking information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such forward-looking information. Accordingly, readers should not place undue reliance on forward-looking information. Forward-looking information is made as of the date of this press release, and the Company does not undertake to update such forward-looking information except in accordance with applicable securities laws.

SOURCE [Arianne Phosphate Inc.](#)

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