Appia Starts Bench-Scale Monazite Processing and Metallurgical Testing with Saskatchewan Research Council

25.02.2021 | Newsfile

Toronto, February 25, 2021 - Appia Energy Corp. (CSE: API) (OTCQB: APAAF) (FSE: A0I.F) (FSE: A0I.MU) (FSE: A0I.BE) (the "Company" or "Appia") is pleased to announce that bench-scale monazite processing and metallurgical testing (the "Test") has started at the Saskatchewan Research Council ("SRC"). SRC will be using sample materials from Appia's high-grade rare earth element ("REE"), gallium and uranium Alces Lake property (the "Property"), located in northern Saskatchewan.

The goal of the Test is to process monazite-bearing rocks from the Property to produce a mixed REE carbonate. The scope of work will include sample preparation and characterization, monazite beneficiation and monazite concentrate processing, and finally producing a mixed REE carbonate. The recovery of a phosphate by-product will also be examined. Approximately 50 kg of monazite-bearing sample material from the WRCB zone of the Property with a representative grade of ~9 to 10% total rare earth oxide ("TREO") will be used for the Test.

The Test is expected to take approximately three months to complete with a full report delivered to the Company. Following the results of the Test, an assessment will be made to pursue the next step of metallurgical testing and convert the REE carbonate to REE oxides.

James Sykes, Appia's Vice-President, Exploration and Development comments: "This is a major step forward for the Company. Mineralization grades at Alces Lake are amongst the highest in the world and comparable with mining operations that are successfully producing REE oxides. The test work being carried out at SRC will determine the ease of metallurgical processing and recovery of REE end-products. Monazite is one of the most important REE-bearing minerals producing REE oxides today and we remain confident that the Alces Lake monazite will be processed with similar results to economic REE operations. We are pleased to have SRC performing the Test for us as they are recognized global leaders in this field of research".

The Company is fully funded and committed to completing the largest exploration and diamond drilling program on the Property to date during the summer months of 2021.

Processing and Metallurgical Test work

The Test will characterize the effects of monazite beneficiation by way of gravity and magnetic separation, and flotation testing. Heavy liquid gravity separation will be used to remove primarily light waste minerals such as quartz, plagioclase, K-feldspar, chlorite and mica. Magnetic separation techniques will determine the effectiveness of the removal of magnetic iron minerals and other non-magnetic minerals. The remaining concentrate after the two separations will be combined and used to evaluate the effectiveness of flotation testing, which is one of the most common methods to recover and concentrate monazite from ore deposits. The end goal of these processes is to produce a high-grade monazite concentrate with a target grade of 55 to 60 wt% TREO for downstream hydrometallurgical testing.

The monazite concentrate will then be ground to a fine powder and followed with caustic cracking where the monazite will be decomposed in a strong basic solution of caustic soda, converting the REE phosphate to REE hydroxides. The solid REE hydroxide will be used for acid selective leach tests and the filtrate and washes will be used for phosphate recovery tests.

Acid selective leaching will be used to dissolve the solid REE hydroxide residue and to test the initial

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separation of REEs from radioactive elements such as Th and U, as well as iron. A REE pregnant leach solution is expected to be produced at the end of the acid selective leaching process. Tests to remove radium and other impurities if any, will also be trialed with subsequent purification processes. Following the purification processes, a purified REE chloride solution is expected to be obtained, which would then be used to precipitate a mixed REE carbonate by the addition of sodium bicarbonate.

The liquid portion derived from the caustic cracking process is anticipated to be enriched with phosphate and caustic soda. The solution will be evaporated to recover a phosphate by-product by crystallization. The unreacted caustic soda in the mother liquor can be recycled and reused in the caustic cracking process. Prior to phosphate by-product recovery, the solution might contain radioactive materials and therefore an additional two-step process will be applied to remove the radioactive contaminants and improve phosphate by-product purity.

All solid, liquid and radioactive wastes produced from both beneficiation and hydrometallurgical tests will be disposed of following SRC's waste disposal protocols and using their facilities.

ALCES LAKE SUMMARY

The Property encompasses some of the highest-grade total and critical rare earth elements ("CREE") and gallium mineralization in the world. CREE is defined here as those rare earth elements that are in short-supply and high-demand for use in permanent magnets and modern electronic applications such as electric vehicles and wind turbines, (i.e: neodymium (Nd), praseodymium (Pr) dysprosium (Dy), and terbium (Tb)). The Alces Lake project area is 17,577 hectares (43,434 acres) in size and is 100% owned by Appia. The project is located close to an old mining camp with existing support services, such as transportation (i.e., 15 km from the nearest trail), energy infrastructure (hydroelectric power), a 1,200 m airstrip that receives daily scheduled services, and access to heavy equipment.

Since detailed exploration began at Alces Lake in 2017, a total of seventy-four (74) REE, gallium and uranium bearing surface zones and occurrences over 45 km of the System have been discovered on the Property. To date, less than 1% of the Property has been explored with diamond drilling. The Property is located in Saskatchewan, the same provincial jurisdiction that has planned to develop a "first-of-its-kind" rare earth processing facility in Canada, which is scheduled to become operational by 2022.

The technical content in this news release was reviewed and approved by Dr. Irvine R. Annesley, P.Geo, Advisor to Appia's Board of Directors, and a Qualified Person as defined by National Instrument 43-101.

About Appia

Appia is a Canadian publicly-listed company in the uranium and rare earth element sectors. The Company is currently focusing on delineating high-grade critical rare earth elements ("REE") and uranium on the Alces Lake property, as well as prospecting for high-grade uranium in the prolific Athabasca Basin on its Loranger, North Wollaston, and Eastside properties. The Company holds the surface rights to exploration for 65,601 hectares (162,104 acres) in Saskatchewan.

The Company also has a 100% interest (subject to a 1% Uranium Production Payment Royalty and a 1% Net Smelter Return Royalty on any precious or base metals payable, provided that the price of uranium is greater than US\$130 per pound) in 12,545 hectares (31,000 acres), with rare earth element and uranium deposits over five mineralized zones in the Elliot Lake Camp, Ontario. The Camp historically produced over 300 million pounds of U_3O_8 and is the only Canadian camp that has had significant rare earth element (yttrium) production. The deposits are largely unconstrained along strike and down dip.

Appia has 92.5 million common shares outstanding, 108.4 million shares fully diluted.

For more information, visit Appia's website at www.appiaenergy.ca

Cautionary Note Regarding Forward-Looking Statements: This News Release contains forward-looking

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statements which are typically preceded by, followed by or including the words "believes", "expects", "anticipates", "estimates", "intends", "plans" or similar expressions. Forward-looking statements are not guarantees of future performance as they involve risks, uncertainties and assumptions. We do not intend and do not assume any obligation to update these forward-looking statements and shareholders are cautioned not to put undue reliance on such statements.

Neither the Canadian Securities Exchange nor its Market Regulator (as that term is defined in the policies of the CSE) accepts responsibility for the adequacy or accuracy of this release.

For further information, please contact:

Tom Drivas, President, CEO and Director: (tel) 416-546-2707, (fax) 416-218-9772 or (email) appia@appiaenergy.ca

James Sykes, VP Exploration & Development, (tel) 306-221-8717, (fax) 416-218-9772 or (email) jsykes@uraniumgeologist.com

Frank van de Water, Chief Financial Officer and Director, (tel) 416-546-2707, (fax) 416-218-9772 or (email) fvandewater@rogers.com

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