

# Appia Announces Alces Lake 2022 Prospecting Program Discovers Massive Monazite at the West Limb Radiometric Anomaly Returning up to 36 wt.% TREO

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Toronto, December 6, 2022 - [Appia Rare Earths & Uranium Corp.](#) (CSE: API) (OTCQX: APAAF) (FSE: A0I.F) (FSE: A0I.MU) (FSE: A0I.BE) (the "Company" or "Appia") is excited to announce the receipt of assay results from the 2022 prospecting program at its wholly owned Alces Lake Rare Earth Elements Property, Northern Saskatchewan.

Highlights from the program include:

- 36.11 wt.% TREO returned from samples of MASSIVE TO SEMI-MASSIVE MONAZITE in outcrop at the West Limb anomaly, first discovered in 2022.
- 3.34 wt.% TREO returned from a mineralized biotite shear zone at the West Limb anomaly
- 4.34 wt.% TREO returned from VISIBLE MONAZITE in a shear zone at a previously unexplored and un-named radiometric prospect south of the Magnet Ridge zone
- 2.03 wt.% TREO returned from VISIBLE MONAZITE discovered in the Western Anomaly

Vice President Exploration Irvine Annesley says "Continuing to find new occurrences of visible and massive monazite on the Alces lake property show the property's amazing potential. Multiple results exceeding one percent total rare earth oxides from new targets, not explored before 2022, tells us we are just scratching the surface at Alces Lake. With so much area left to explore we are excited about what remains to be discovered and new targets to be drilled."

Following up on the success of Appia's 2021 geological field work, a team of two field geologists conducted reconnaissance prospecting of previously unexplored or underexplored radiometric Th (and U) anomalies during the 2022 field season. The team documented 13 new occurrences of visible monazite across the central portion of the Alces Lake property. Grab samples of anomalously radioactive bedrock were collected whenever possible. Of 34 outcrop grab samples, four returned grades exceeding 2 weight percent Total Rare Earth Oxides (wt.% TREO) and greater than half exceeded 0.1 wt.% TREO.

With another successful year following up on the results of Alces Lake 2021 airborne radiometric survey, Appia has engaged a geophysical contractor to expand the survey coverage to all of the 35,682-hectare Alces Lake property.

Appia CEO Tom Drivas said "The 2022 prospecting results have shown just how effective and valuable a tool the airborne radiometric data is. After the 2021 survey guided our team to excellent results from new targets for the second season in a row, including the stunning 36.11 wt.% TREO sample in the West Limb, we have decided to expand the survey to cover the entire property. This is an important step for unlocking the full potential of Alces Lake as part of an emerging Rare Earth Elements district."

Figure 1. Results and locations of 2022 prospecting sampling. Point labels identify the calculated wt.% TREO of each outcrop grab sample, as further elaborated on in Table 1 below.

To view an enhanced version of this graphic, please visit:  
[https://images.newsfilecorp.com/files/5416/146909\\_2978a980c463bbe7\\_005.jpg](https://images.newsfilecorp.com/files/5416/146909_2978a980c463bbe7_005.jpg)

Figure 2. Current coverage of airborne radiometrics at Alces Lake. Appia has engaged a geophysical

contractor to extend the survey to the complete extents of the claim group at the beginning of the 2023 work program.

To view an enhanced version of this graphic, please visit:

[https://images.newsfilecorp.com/files/5416/146909\\_2978a980c463bbe7\\_006.jpg](https://images.newsfilecorp.com/files/5416/146909_2978a980c463bbe7_006.jpg)

Table 1. Locations and Calculated Wt. % TREO of 2022 outcrop grab samples as displayed in Figure 1.  
 Wt.% TREO = ([CeO<sub>2</sub> ppm] + [Dy<sub>2</sub>O<sub>3</sub> ppm] + [Pr<sub>6</sub>O<sub>11</sub> ppm] + [La<sub>2</sub>O<sub>3</sub> ppm] + [Nd<sub>2</sub>O<sub>3</sub> ppm] + [Sm<sub>2</sub>O<sub>3</sub> ppm] + [Eu<sub>2</sub>O<sub>3</sub> ppm] + [Gd<sub>2</sub>O<sub>3</sub> ppm] + [Tb<sub>4</sub>O<sub>7</sub> ppm] + [Ho<sub>2</sub>O<sub>3</sub> ppm] [Er<sub>2</sub>O<sub>3</sub> ppm] + [Yb<sub>2</sub>O<sub>3</sub> ppm] + [Lu<sub>2</sub>O<sub>3</sub> ppm] + [Y<sub>2</sub>O<sub>3</sub> ppm] ) / 10000

Easting (m)	Northing (m)	Elevation (m)	Sample ID	Type	TREO (wt.%)
666087	6617079	492	8233	Outcrop	36.114
668489	6615445	433	8221	Outcrop	4.338
666087	6617065	492	8219	Outcrop	3.343
663441	6614728	447	8236	Outcrop	2.030
661297	6610836	516	8214	Outcrop	0.729
661922	6611569	453	8213	Outcrop	0.391
667723	6616654	488	8228	Outcrop	0.349
661962	6611612	461	8212	Outcrop	0.287
661289	6610831	516	8215	Outcrop	0.237
661445	6611280	452	8217	Outcrop	0.219
668464	6615569	441	8220	Outcrop	0.206
666243	6617494	488	8235	Outcrop	0.204
667713	6616673	489	8227	Outcrop	0.181
661444	6611310	448	8216	Outcrop	0.178
661910	6611203	409	8208	Outcrop	0.149
667717	6616682	489	8224	Outcrop	0.146
664174	6611294	439	8205	Outcrop	0.135
666186	6617430	486	8234	Outcrop	0.121
666078	6616950	490	8218	Outcrop	0.098
664336	6611228	442	8207	Outcrop	0.078
668309	6615660	435	8223	Outcrop	0.072
666087	6616621	462	8230	Outcrop	0.058
661946	6613288	422	8232	Outcrop	0.052
662006	6611207	415	8209	Outcrop	0.048
663869	6610986	496	8201	Outcrop	0.041
664124	6611240	436	8204	Outcrop	0.041
667689	6616663	489	8225	Outcrop	0.030
663885	6610980	497	8202	Outcrop	0.029
667700	6616652	488	8226	Outcrop	0.027
668520	6615530	442	8222	Outcrop	0.025
663854	6612821	419	8229	Outcrop	0.021
664340	6611257	437	8206	Outcrop	0.015
662185	6611372	438	8211	Outcrop	0.014
664446	6612794	369	8231	Outcrop	0.011

#### About the Alces Lake Project

The Alces Lake project encompasses some of the highest-grade total and critical\* REEs and gallium mineralization in the world, hosted within several surface and near-surface monazite occurrences that remain open at depth and along strike.

\* Critical rare earth elements are defined here as those 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)).

Appia resumed drilling at Alces Lake in mid-March 2022, with significantly deeper holes compared to the 100

holes (approximately 8,076 metres) drilled in 2021. Total meterage in 2022 was 17,481. This was designed to allow Appia to determine continuity at depth and along the identified REE mineralization trends as the Company works towards an initial resource estimate in accordance with NI 43-101 for the area. With high-grade REE mineralization now identified in many locations within an area covering approximately 27 km<sup>2</sup> of the Alces Lake block, the Company believes the project has the potential to be a world-class source of high-grade critical rare earth bearing monazite.

The Alces Lake project is located in northern Saskatchewan, the same provincial jurisdiction that is developing a "first-of-its-kind" rare earth processing facility in Canada (currently under construction by the Saskatchewan Research Council, with the first stage scheduled to become operational in early 2023). The Alces Lake project area is 35,682 hectares (88,173 acres) in size and is 100% owned by Appia.

To ensure safe work conditions are met for the workforce, the Company has developed exploration guidelines that comply with the Saskatchewan Public Health Orders and the Public Health Order Respecting the Northern Saskatchewan Administration District in order to maintain social distancing and help prevent the transmission of COVID-19.

Grab samples were collected with the use of a rock hammer where possible and sample selection location was determined by the use of handheld scintillometer. The area of highest scintillometer readings may or may not have been sampled. All litho-geochemical assay results of grab samples were provided by Saskatchewan Research Council's Geoanalytical Laboratory, an ISO/IEC 17025:2005 (CAN-P-4E) certified laboratory in Saskatoon, SK. All analytical results reported herein have passed internal QA/QC review and compilation.

The technical content in this news release was reviewed and approved by Dr. Irvine R. Annesley, P.Geo., Vice President Exploration of Appia and a Qualified Person as defined by National Instrument 43-101.

About Appia Rare Earths & Uranium Corp.

Appia is a publicly traded Canadian company in the rare earth element and uranium sectors. The Company is currently focusing on delineating high-grade critical rare earth elements and gallium on the Alces Lake property, as well as exploring for high-grade uranium in the prolific Athabasca Basin on its Otherside, Loranger, North Wollaston, and Eastside properties. The Company holds the surface rights to exploration for 110,997 hectares (274,280 acres) in Saskatchewan. The Company also has a 100% interest in 12,545 hectares (31,000 acres), with rare earth element and uranium deposits over five mineralized zones in the Elliot Lake Camp, Ontario.

Appia has 128.1 million common shares outstanding, 151 million shares fully diluted.

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

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