

# Appia Announces High-Grade Mineralization Over Area Covering Approximately 27 Square Kilometres of Alces Lake Claims

Toronto, Ontario--(Newsfile Corp. - December 6, 2021) - **Appia Rare Earths & Uranium Corp. (CSE: API) (OTCQB: APAAF) (FSE: A0I.F) (FSE: A0I.MU) (FSE: A0I.BE)** (the "Company" or "Appia") is pleased to announce new assays results from its 2021 field program at its 100%-owned Alces Lake high-grade rare earth elements ("REE") and gallium property, Athabasca Basin area, northern Saskatchewan. Appia has received assays from grab samples and channel samples.

## **ALCES LAKE HIGH-GRADE REE PROJECT**

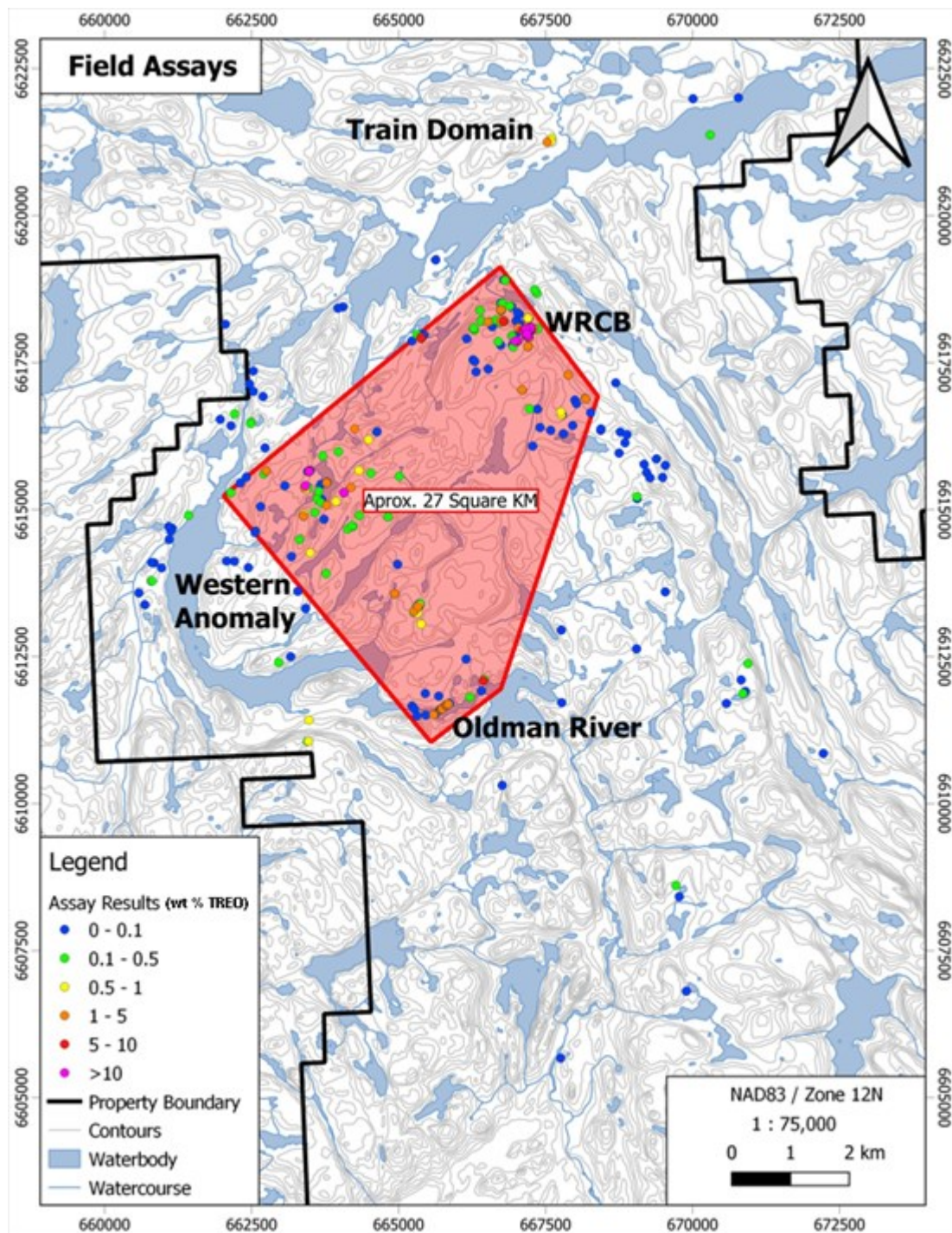
Assay results from the Wilson North and Richards drill holes were announced on November 19, 2021 and confirmed some of the highest recorded rare earth grades discovered to date on the Alces Lake property. In addition, high-grade REE mineralization has now been identified throughout an area covering approximately 27 km<sup>2</sup> of the Alces Lake block. Assay results have been returned from channel and grab samples and are reported in wt % TREO (total rare earth oxides) (see Tables 1 & 2). Highlights include:

- **High grade REE mineralization has now been identified over an estimated 27 square kilometre area.**
- **Channel sample of 14.71 wt % TREO from Sweet Chili Heat and 11.94 wt % TREO from Diablo.**
- **10.35 wt % TREO returned from grab sample at Zesty.**
- **7.86 wt % TREO returned from grab sample along the Oldman River trend.**
- **New discovery of REEs with 2.27 wt % TREO grab sample from "Train Domain".**
- **Elevated Gallium values have been returned for all samples enriched in TREO.**

## **Wilson-Richard-Charles-Bell (WRCB) Area**

### **Alces Lake Field Assays**

Appia conducted an extensive field geology and sampling program earlier in 2021, sampling previously untested occurrences of REE across the claims block. Multiple radiometric anomalies were identified with the full-property aerial geophysics conducted this year and confirmed as REE occurrences with field work. The association between REEs and radioactivity is due to the thorium content of the REE host mineral, monazite. High-grade REE mineralization has now been identified throughout an area covering approximately 27 square kilometres. Elevated gallium (Ga<sub>2</sub>O<sub>3</sub>) values have also been identified throughout the area, as it is hosted within the same mineralogy as REEs (monazite). Table 1 provides a summary of channel sample composites and Table 2 provides a summary of all channel sample results (95 samples total) and grab samples with results ≥0.1 wt % TREO.



**Figure 1- Coverage of surface field assay results**

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**Table 1 - Summary of channel sample composites.**

Zone Name	Channel	Width (m)	TREO (wt %)	Ga2O3 (wt %)	Including		
					Width (m)	TREO (wt %)	Ga2O3 (wt %)
Augier	1	7.00	0.57	0.006	1.84	1.20	0.008
Buffalo	1	0.90	0.85	0.005	0.56	1.05	0.005
Cool Ranch	1	6.63	0.77	0.006	0.80	3.17	0.014
Cool Ranch	2	4.27	0.56	0.005	0.61	1.13	0.007
Diablo	1	3.32	2.22	0.008	1.02	5.07	0.015
Diablo	2	2.50	5.83	0.014	1.20	11.94	0.027
Gilligan	1	4.00	1.40	0.007			
HH	1	2.16	1.83	0.007	0.87	4.35	0.013
Roulette	1	1.00	1.97	0.008			
Roulette	2	1.30	0.96	0.006			

Sweet Chili Heat	1	3.00	2.91	0.010	0.50	14.71	0.031
Sweet Chili Heat	2	2.03	3.94	0.014	0.70	10.38	0.030
Sweet Chili Heat	3	2.68	4.60	0.017			
Sweet Chili Heat	4	0.25	1.60	0.010			
Zesty	1	3.04	0.49	0.005			
Zesty	2	3.83	0.26	0.003			
Zesty	3	1.25	0.71	0.004	0.20	1.64	0.008

The Company's channel sampling program consists of continuous samples, each of which did not exceed 1.2 m, taken along the exposed rock at surface.

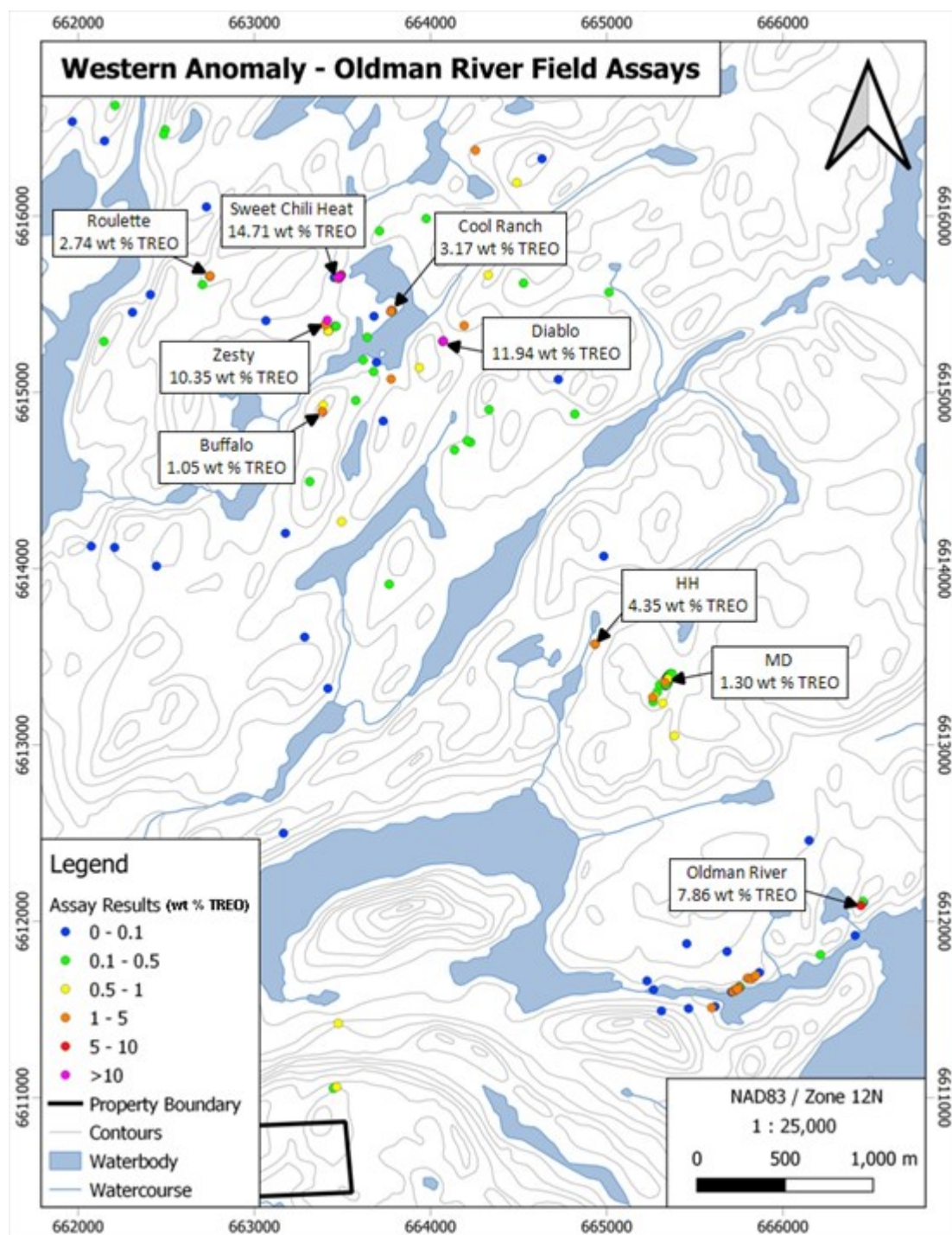
### **Western Anomaly and Oldman River Area**

The Western Anomaly area, first discovered during the 2021 field season, has returned high-grade REE mineralization from several zones, the most significant of which are within 800 m of each other. Similar to elsewhere on the property, REEs are hosted in monazite within biotite-rich pegmatitic structures. Assay results have returned channel samples with 14.71 wt % TREO (Sweet Chili Heat) and 11.94 wt % TREO (Diablo) and a grab sample with 10.35 wt % TREO (Zesty).

Elevated REE mineralization from 52 grab samples with measurable wt % TREO over a strike length of approximately 200 m have been returned from the MD zone as shown in Table 2. This potentially bodes well for the potential of a more voluminous mineralized body.

A 7.86 wt % TREO grab sample has also been returned from the Oldman River trend. This result is the highest-grade to date from the area and reveals the potential for more enriched structures.

Nicolas Guest, Vice President of Exploration notes "We can now confirm the presence of high-grade REE mineralization in the newly discovered Western Anomaly area. Many of these zones are clustered within close proximity to one another, which could prove beneficial for extraction should future work determine they are economically viable. The Oldman River trend hosts some of our most continuous mineralization and we are excited for its higher-grade potential as a result of these latest assays."



**Figure 2 - Field assay results from the Western Anomaly and Oldman River areas.**

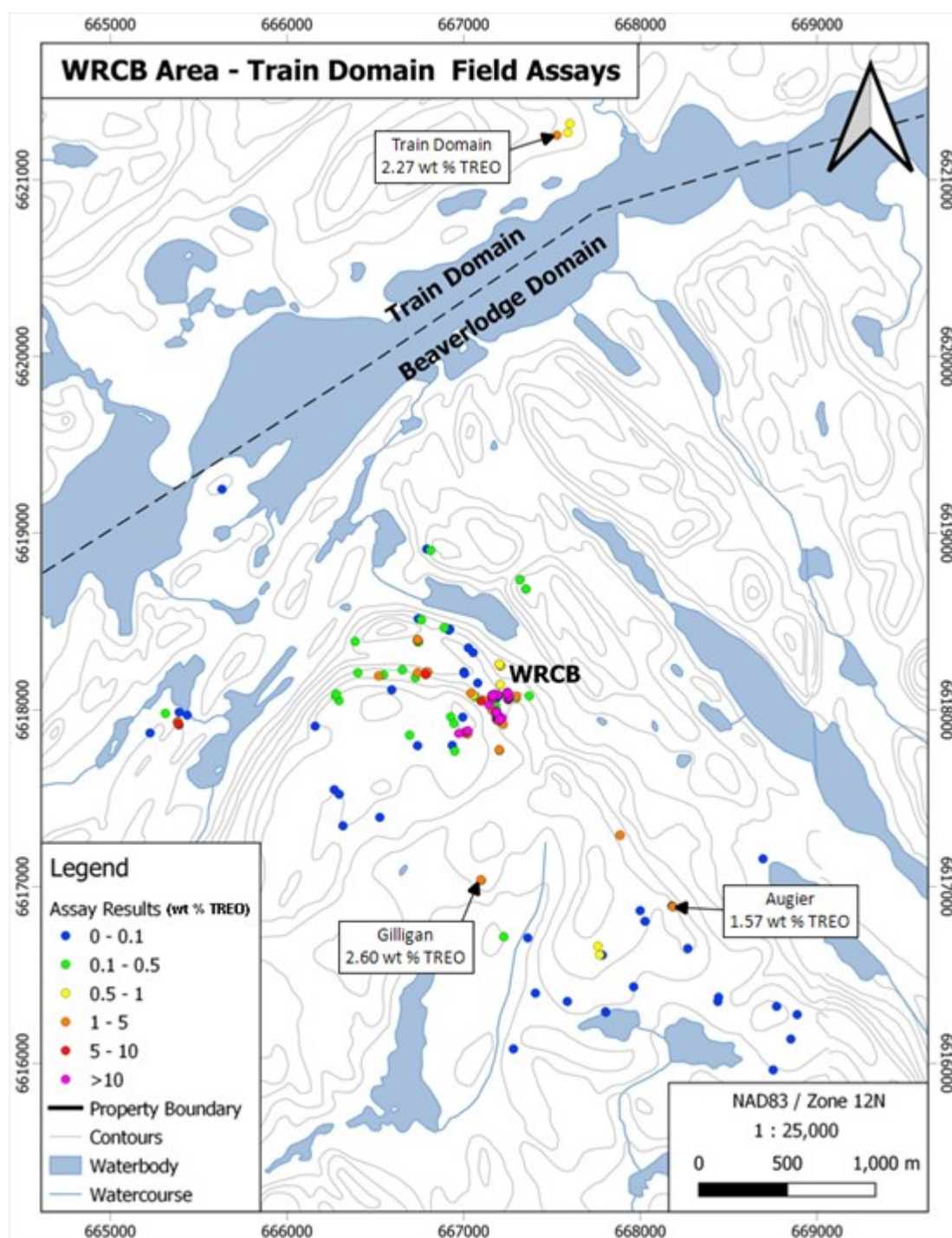
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### **WRCB Area - Train Domain Area**

A grab sample from the Train Domain has returned 2.27 wt % TREO within sheared granitic gneiss. Until now, all REE mineralization on the Alces Lake property has been discovered in the Beaverlodge Domain. In 2021, Appia more than doubled the Company's land position at Alces Lake as a result of data obtained through aerial geophysics. These new claims extend the property well into the Train Domain.

Nicolas Guest, Vice President of Exploration notes "The recognition of REE mineralization within the Train Domain on the Alces Lake property greatly expands the potential for new discoveries. We had staked new claims within this domain earlier in the year and will increase our focus on this previously overlooked geologic environment."



**Figure 3 - Field assay results from the WRCB area and Train Domain.**

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The Augier zone is within an extensive area of elevated radiation located approximate 1.4 km along strike of WRCB and has returned channel sample results of 7 m averaging 0.57 wt % TREO (including 1.84 m of 1.20 wt % TREO). These results, similar to those from the MD zone, indicate the potential for a larger mineralized system. In addition, the newly discovered Gilligan zone has returned channel sample results of 2.60 wt % TREO.

The Company is fully-funded for the 2021 program and all required permits for the exploration activities are in-hand.

With the largest exploration and diamond drilling program in the Company's history nearing completion in 2021, exploration results will be released as received and analyzed by the Company. Analysis of the summer exploration and drilling program will follow and may lead to the preparation of an NI 43-101

(Technical Report with 3D Geophysical-geological Models) report expected near the end of 2021 or early 2022. The Alces Lake project encompasses some of the highest-grade total and critical\* REEs and gallium mineralization in the world, hosted within a number of 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)).

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, it is scheduled to become operational in 2023). The Alces Lake project area is 35,682.2 hectares (88,172.7 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.

Continuous channels were cut across the surface of outcrop with suspected REE mineralization. Individual sample intervals within the channel were determined by lithology and areas of similar scintillometer readings, and did not exceed 1.2 m in length. Channels were cut approximately perpendicular to the interpreted mineralized trend. When possible, the channels were extended into suspected unmineralized rock so as to bound the extents of mineralization. Channels were cut to a depth of ~2 inches with a rock saw and individual samples were removed with the use of a chisel and hammer. Sample intervals were separated by cutting perpendicular to the channel with a rock saw. All material removed from the channel was captured for analysis. Channel composites were created to include samples  $\geq 0.1$  wt % TREO and no more than 2 m of internal dilution. True widths were not determined for any channel composites. 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 lithochemical assay results 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, 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, gallium and uranium on the Alces Lake property, as well as exploring 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 83,706 hectares (206,842 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 117.0 million common shares outstanding, 142.4 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.*



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(m)	Site	Method	Site	La203	La202	Pr2021	La204	Sm205	Eu206	Pr207	Sm208	Pr209	La210	Sm211	Pr212	La213	Sm214	Pr215	La216	Sm217	Pr218	La219	Sm220	Pr221	La222	Sm223	Pr224	La225	Sm226	Pr227	La228	Sm229	Pr230	La231	Sm232	Pr233	La234	Sm235	Pr236	La237	Sm238	Pr239	La240	Sm241	Pr242	La243	Sm244	Pr245	La246	Sm247	Pr248	La249	Sm250	Pr251	La252	Sm253	Pr254	La255	Sm256	Pr257	La258	Sm259	Pr260	La261	Sm262	Pr263	La264	Sm265	Pr266	La267	Sm268	Pr269	La270	Sm271	Pr272	La273	Sm274	Pr275	La276	Sm277	Pr278	La279	Sm280	Pr281	La282	Sm283	Pr284	La285	Sm286	Pr287	La288	Sm289	Pr290	La291	Sm292	Pr293	La294	Sm295	Pr296	La297	Sm298	Pr299	La300	Sm301	Pr302	La303	Sm304	Pr305	La306	Sm307	Pr308	La309	Sm310	Pr311	La312	Sm313	Pr314	La315	Sm316	Pr317	La318	Sm319	Pr320	La321	Sm322	Pr323	La324	Sm325	Pr326	La327	Sm328	Pr329	La330	Sm331	Pr332	La333	Sm334	Pr335	La336	Sm337	Pr338	La339	Sm340	Pr341	La342	Sm343	Pr344	La345	Sm346	Pr347	La348	Sm349	Pr350	La351	Sm352	Pr353	La354	Sm355	Pr356	La357	Sm358	Pr359	La360	Sm361	Pr362	La363	Sm364	Pr365	La366	Sm367	Pr368	La369	Sm370	Pr369	La371	Sm372	Pr370	La372	Sm373	Pr371	La373	Sm374	Pr372	La374	Sm375	Pr373	La375	Sm376	Pr374	La376	Sm377	Pr375	La377	Sm378	Pr376	La378	Sm379	Pr377	La379	Sm380	Pr378	La380	Sm381	Pr379	La381	Sm382	Pr380	La382	Sm383	Pr381	La383	Sm384	Pr382	La384	Sm385	Pr383	La385	Sm386	Pr384	La386	Sm387	Pr385	La387	Sm388	Pr386	La388	Sm389	Pr387	La389	Sm390	Pr388	La390	Sm391	Pr389	La391	Sm392	Pr390	La392	Sm393	Pr391	La393	Sm394	Pr392	La394	Sm395	Pr393	La395	Sm396	Pr394	La396	Sm397	Pr395	La397	Sm398	Pr396	La398	Sm399	Pr397	La399	Sm400	Pr398	La400	Sm401	Pr399	La401	Sm402	Pr400	La402	Sm403	Pr401	La403	Sm404	Pr402	La404	Sm405	Pr403	La405	Sm406	Pr404	La406	Sm407	Pr405	La407	Sm408	Pr406	La408	Sm409	Pr407	La409	Sm410	Pr408	La410	Sm411	Pr409	La411	Sm412	Pr410	La412	Sm413	Pr411	La413	Sm414	Pr412	La414	Sm415	Pr413	La415	Sm416	Pr414	La416	Sm417	Pr415	La417	Sm418	Pr416	La418	Sm419	Pr417	La419	Sm420	Pr418	La420	Sm421	Pr419	La421	Sm422	Pr420	La422	Sm423	Pr421	La423	Sm424	Pr422	La424	Sm425	Pr423	La425	Sm426	Pr424	La426	Sm427	Pr425	La427	Sm428	Pr426	La428	Sm429	Pr427	La429	Sm430	Pr428	La430	Sm431	Pr429	La431	Sm432	Pr430	La432	Sm433	Pr431	La433	Sm434	Pr432	La434	Sm435	Pr433	La435	Sm436	Pr434	La436	Sm437	Pr435	La437	Sm438	Pr436	La438	Sm439	Pr437	La439	Sm440	Pr438	La440	Sm441	Pr439	La441	Sm442	Pr440	La442	Sm443	Pr441	La443	Sm444	Pr442	La444	Sm445	Pr443	La445	Sm446	Pr444	La446	Sm447	Pr445	La447	Sm448	Pr446	La448	Sm449	Pr447	La449	Sm450	Pr448	La450	Sm451	Pr449	La451	Sm452	Pr450	La452	Sm453	Pr451	La453	Sm454	Pr452	La454	Sm455	Pr453	La455	Sm456	Pr454	La456	Sm457	Pr455	La457	Sm458	Pr456	La458	Sm459	Pr457	La459	Sm460	Pr458	La460	Sm461	Pr459	La461	Sm462	Pr460	La462	Sm463	Pr461	La463	Sm464	Pr462	La464	Sm465	Pr463	La465	Sm466	Pr464	La466	Sm467	Pr465	La467	Sm468	Pr466	La468	Sm469	Pr467	La469	Sm470	Pr468	La470	Sm471	Pr469	La471	Sm472	Pr470	La472	Sm473	Pr471	La473	Sm474	Pr472	La474	Sm475	Pr473	La475	Sm476	Pr474	La476	Sm477	Pr475	La477	Sm478	Pr476	La478	Sm479	Pr477	La479	Sm480	Pr478	La480	Sm481	Pr479	La481	Sm482	Pr480	La482	Sm483	Pr481	La483	Sm484	Pr482	La484	Sm485	Pr483	La485	Sm486	Pr484	La486	Sm487	Pr485	La487	Sm488	Pr486	La488	Sm489	Pr487	La489	Sm490	Pr488	La490	Sm491	Pr489	La491	Sm492	Pr490	La492	Sm493	Pr491	La493	Sm494	Pr492	La494	Sm495	Pr493	La495	Sm496	Pr494	La496	Sm497	Pr495	La497	Sm498	Pr496	La498	Sm499	Pr497	La499	Sm500	Pr498	La500	Sm501	Pr499	La501	Sm502	Pr500	La502	Sm503	Pr501	La503	Sm504	Pr502	La504	Sm505	Pr503	La505	Sm506	Pr504	La506	Sm507	Pr505	La507	Sm508	Pr506	La508	Sm509	Pr507	La509	Sm510	Pr508	La510	Sm511	Pr509	La511	Sm512	Pr510	La512	Sm513	Pr511	La513	Sm514	Pr512	La514	Sm515	Pr513	La515	Sm516	Pr514	La516	Sm517	Pr515	La517	Sm518	Pr516	La518	Sm519	Pr517	La519	Sm520	Pr518	La520	Sm521	Pr519	La521	Sm522	Pr520	La522	Sm523	Pr521	La523	Sm524	Pr522	La524	Sm525	Pr523	La525	Sm526	Pr524	La526	Sm527	Pr525	La527	Sm528	Pr526	La528	Sm529	Pr527	La529	Sm530	Pr528	La530	Sm531	Pr529	La531	Sm532	Pr530	La532	Sm533	Pr531	La533	Sm534	Pr532	La534	Sm535	Pr533	La535	Sm536	Pr534	La536	Sm537	Pr535	La537	Sm538	Pr536	La538	Sm539	Pr537	La539	Sm540	Pr538	La540	Sm541	Pr539	La541	Sm542	Pr540	La542	Sm543	Pr541	La543	Sm544	Pr542	La544	Sm545	Pr543	La545	Sm546	Pr544	La546	Sm547	Pr545	La547	Sm548	Pr546	La548	Sm549	Pr547	La549	Sm550	Pr548	La550	Sm551	Pr549	La551	Sm552	Pr550	La552	Sm553	Pr551	La553	Sm554	Pr552	La554	Sm555	Pr553	La555	Sm556	Pr554	La556	Sm557	Pr555	La557	Sm558	Pr556	La558	Sm559	Pr557	La559	Sm560	Pr558	La560	Sm561	Pr559	La561	Sm562	Pr560	La562	Sm563	Pr561	La563	Sm564	Pr562	La564	Sm565	Pr563	La565	Sm566	Pr564	La566	Sm567	Pr565	La567	Sm568	Pr566	La568	Sm569	Pr567	La569	Sm570	Pr568	La570	Sm571	Pr569	La571	Sm572	Pr570	La572	Sm573	Pr571	La573	Sm574	Pr572	La574	Sm575	Pr573	La575	Sm576	Pr574	La576	Sm577	Pr575	La577	Sm578	Pr576	La578	Sm579	Pr577	La579	Sm580	Pr578	La580	Sm581	Pr579	La581	Sm582	Pr580	La582	Sm583	Pr581	La583	Sm584	Pr582	La584	Sm585	Pr583	La585	Sm586	Pr584	La586	Sm587	Pr585	La587	Sm588	Pr586	La588	Sm589	Pr587	La589	Sm590	Pr588	La590	Sm59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