Alpha: Uraniferous Lake Sediment Analyses Bolster Potential at Carpenter Lake Property, Athabasca Basin

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Vancouver, British Columbia -- (Newsfile Corp. - May 21, 2014) - Alpha Exploration Inc. (TSXV: AEX) ("Alpha" or the "Company") is pleased to announce that the lake sediment sample analyses have been received. The lake sediment samples were collected in April 2014 during a radon in lake water and sediment survey at Carpenter Lake, Athabasca Basin, Saskatchewan as part of Alpha's Option Agreement to earn a 60% interest in the Carpenter Lake Property from Noka Resources Inc. (TSXV: NX). A total of 60 lake sediment samples were recovered by RadonEx Exploration Management of St. Lazare, Quebec within six grids (A to F) along the Cable Bay Shear Zone (CBSZ) and within the 20,637 hectare Property.

Highlights of the Lake Sediment Results:

- Eight lake sediment samples are strongly anomalous with uranium (3.9 to 37 ppm). In comparison, 3.8 ppm uranium was the highest concentration in lake sediments proximal to one of the largest high grade uranium boulder fields in the Athabasca Basin at Patterson Lake South (PLS);

- The eight uraniferous lake sediment results were accompanied by arsenic (1.6 to 76 ppm), cobalt (3.3 to 33 ppm), copper (12 to 68 ppm), lead (1.4 to 3.8 ppm), molybdenum (0.5 to 4.6 ppm), and nickel (14 to 50 ppm). This geochemical signature is consistent with a graphitic/pyritic pelite basement bedrock source that is anomalous with uranium, and may represent material eroded from the CBSZ;

- Grid C: westernmost lake returned background values of uranium in lake sediments, which suggests the strongly anomalous radon values are sourced from directly below in the bedrock where a VTEM conductor is present. Iron oxide coatings on pebbles were observed with the anomalous radon values, which was an environmental condition associated with mineralization at Key Lake and PLS;

The lake sediment samples were recovered concurrent with radon in sediment samples that were targeted above electromagnetic ("EM") conductors confirmed in a detailed airborne VTEM and magnetic survey completed in February 2014 by Aeroquest International Limited. Where substantial overburden thickness exists, lake sediment samples represent glacially transported material, and the bedrock source of anomalous uranium is thought to be situated up-ice. Conversely, radon in lake and sediment anomalies may represent a bedrock source directly below where the concentration of uranium in the lake sediments is at background levels. The lake sediment results have assisted in determining whether radon anomalies may be sourced from the overburden or bedrock directly beneath, which will be a valuable tool in developing future exploration programs on the Property.

Summer exploration at Carpenter Lake will include a detailed high-resolution airborne gamma radiation spectrometric survey (radiometrics). The detailed radiometric survey will be followed by ground prospecting, geochemical and radon sampling.

All of the lake sediment samples recovered were submitted to SRC Geoanalytical Laboratories (an SCC ISO/IEC 17025: 2005 Accredited Facility) of Saskatoon for analysis, which included a 63 element ICP-OES, and uranium by ICP-MS.

About Alpha Exploration Inc.

Alpha Exploration Inc. is a mineral exploration company whose uranium experience was developed with the discovery of the Roughrider deposits and subsequently the Patterson Lake South discovery in 2012 via Alpha Mineral's successful JV with Fission Uranium. The principals of the Company comprise a team that were involved in the discovery and development of those world class deposits. The Company started with a principal focus in the exploration and development of its Mikwam Gold Property in Ontario, and that focus has been moved to development of uranium properties in the Athabasca Basin in northern Saskatchewan, Canada. Common Shares are listed on the TSX Venture Exchange under the symbol "AEX". Additional

information about Alpha is available on Alpha's website at www.alpha-aex.com or under its profile on SEDAR at www.sedar.com.

The technical information in this news release has been prepared in accordance with the Canadian regulatory requirements set out in National Instrument 43-101, and reviewed on behalf of Alpha Exploration Inc. by Garrett Ainsworth, P.Geo., Vice President Exploration, a qualified person.

On behalf of the Board of Directors of Alpha Exploration Inc.

"Ben Ainsworth"
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