

## **DRILLING COMMENCES ON ORX ANOMALY**

**Calgary, Alberta, Canada, September 19, 2016:** Uravan Minerals Inc. (“Uravan”) will commence drilling on its 100% owned Outer Ring property, Athabasca Basin<sup>1</sup>, Saskatchewan ([map link](#)). Drill-hole targeting will focus on the ORX Anomaly ([map link](#)), an area measuring approximately 2 sq. km having the highest positive correlation with the ORX (ZTEM) conductive system ([map link](#)).

The ORX Anomaly is a discrete southwest-trending corridor of anomalous concentrations of radiogenic <sup>207</sup>Pb/<sup>206</sup>Pb ratios<sup>2</sup> (<0.61) ([map link](#)) occurring in the clay-size fraction from soils ([model link](#)). From our experience, such well-defined radiogenic surface anomalies outline highly prospective areas and, if supported by conductive electromagnetic (EM) signatures, provide compelling and focused drill targets.

Based on the results of a recently completed property-wide ZTEM<sup>3</sup> geophysical survey ([press release link](#)), the ORX Anomaly is coincident with a well-developed conductive system extending from the unconformity into the underlying basement lithologies, and vertically into the overlying Athabasca Sandstone to the surface ([map link](#)). This extensive low-resistivity feature in the Sandstone is interpreted to be an illite (clay mineral) alteration signature. Such alteration is typically derived from hydrothermal activity related to reactivated basement faults, and corresponding unconformity uranium deposit formation.

The ORX ZTEM conductive system trends roughly north-south and appears to have been disrupted by a number of major structures, of which the most prominent is lineament L-1, interpreted as a northeast-southwest reverse fault, dipping steeply southeast. This major structural feature seems to constrain both the southwest-trending ORX surface geochemical signature and the prominent low-resistivity alteration feature in the Sandstone ([map link](#)).

The ORX drill program is scheduled to commence on September 27, 2016. The planned program consisted of three (3) 900-meter diamond drill-holes, however, due to our late start the number of drill-holes we can complete at this time of year is uncertain.

Larry Lahusen, CEO for Uravan, states, “The ORX Anomaly is a significant well-defined surface geochemical signature that is highly supported by structure and a coincident conductive system. This combination provides a very focused drill target that will allow Uravan’s technical team to evaluate quickly the uranium-bearing potential of the ORX Anomaly, thereby reducing the number of drill holes to discovery”.



Dr. Colin Dunn, P. Geo., technical advisor for Uravan, is the Qualified Person for the purposes of NI 43-101 with respect to the technical information in this press release. Dr. Colin Dunn, an independent specialist in biogeochemistry, is working closely with Uravan’s technical group to advance the evaluation and interpretation of surface geochemical data.

### **For further information, contact**

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<sup>1</sup>The Athabasca Basin is an ancient (Paleoproterozoic) sandstone basin located in northern Saskatchewan, Canada. The Athabasca Group sandstone and the underlying crystalline basement rocks host high-grade uranium deposits, either at the sandstone-basement unconformity (sandstone-hosted mineralization) or within the underlying structurally disrupted crystalline basement lithologies (basement-hosted mineralization). These unconformity-related uranium deposits account for about 20 percent of the world's natural uranium production. The ore grades are high, typically grading 2% to 20% U<sub>3O<sub>8</sub></sub>.

<sup>2</sup>Natural uranium is primarily composed of two isotopes: <sup>235</sup>U = 0.72%, the fissile fraction, and <sup>238</sup>U = 99.284%, is the non-fissile fraction. The lead (Pb) isotopes <sup>207</sup>Pb and <sup>206</sup>Pb are the radioactive (radiogenic) decay products of natural uranium: <sup>235</sup>U decays to <sup>207</sup>Pb and <sup>238</sup>U decays to <sup>206</sup>Pb. The presence of low <sup>207</sup>Pb/<sup>206</sup>Pb isotopic ratios (< approx. 0.60) is used to identify possible U deposits because this ratio is unique and distinctively low for Pb derived from a U deposit relative to any other geological source.

<sup>3</sup>The airborne natural source Z-Axis Tipper Electromagnetic (ZTEM) system provides high resolution EM data at depths >1500 m and excellent resistivity discrimination for detection of conductive basement anomalies and low-resistivity signatures in the overlying sandstone.

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**Uravan is a Calgary, Alberta-based diversified mineral exploration company that utilizes applied research to develop innovative exploration technologies to identify buried uranium deposits in under-explored areas. Our exploration focus in uranium is for potential high-grade unconformity-related uranium deposits in the Athabasca Basin in Canada. Uravan is a publicly listed company on the TSX Venture Exchange under the trading symbol UVN. All of the Uravan's mineral properties are considered to be in the exploration stage of development.**

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