

# Northern Superior Resources: Summer Exploration Program Expands Gold Potential, Croteau Est Gold Property, Quebec

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SUDBURY, ONTARIO--(Marketwired - Nov 3, 2014) - [Northern Superior Resources Inc.](#) (TSX VENTURE:SUP) (the "Company" or "Northern Superior") is pleased to provide the following summary of the Company's 2014 summer exploration program.

## Highlights:

1) Exposing one of four high grade gold shoots within the gold mineralized Croteau- Bouchard shear zone (CBSZ), with the following distribution of gold mineralization (**See Figure 1** : <http://media3.marketwire.com/docs/Figure1Trench5.pdf> ) : a) two zones of > 10 g/ t Au, 2.5m x 2.0 m and 2.0m x 0.5m; b) enclosed by a halo of >5 g/ t Au, 7.0m x 2.5m; and c) enclosed by a halo of gold mineralization of >3 g/ t Au over an area of 8.0m x 3.0m.

2) Defined the extension of the large, gold- bearing alteration structural corridor associated with the CBSZ on the property for an additional 9.8 km to the east.

The location of the exposed high grade shoot in Trench 5 within the CBSZ was determined through projecting its up- plunge orientation to surface from core hole drilling intersections. The distribution of gold-mineralization within the shoot was determined from samples collected from a detailed grid of channels cut perpendicular to the trend (east- west) of the mineralization. This distribution does not include earlier grab samples of 52.8 g/t Au, 58.8 g/t Au and 68.7 g/t Au previously collected from the same zone (**See Figure 1 and Table 1** : <http://media3.marketwire.com/docs/Figure1Table1.pdf> ). Other characteristics of this shoot are summarized in **Table 2** : <http://media3.marketwire.com/docs/Table2Trench5.pdf> . There are at least three other such shoots identified within the CBSZ from core drill programs with similar or better grade characteristics.

The Company previously reported significant gold mineralization in both trench and drill hole intersections within the CBSZ (see previous press releases). However, results from the 2014 reverse circulation drill program (see press release, May 7<sup>th</sup>, 2014) and follow-up summer mapping, prospecting and trenching programs on the property now indicate that the CBSZ is a part of a much larger gold- mineralized system.

The same structural and lithological components that are seen to control mineralization within the CBSZ have now been identified in the Target #2 (Trench 101), and Target #4 and #5 areas, 9.8 km east of the CBSZ (**See Figure 2 and Table 2** : <http://media3.marketwire.com/docs/Figure2Table2.pdf> ).

Interpretations of proprietary airborne geophysical and structural lineament data further tie the recent surface mapping and trenching results to the geophysical data, which extends a high degree of confidence to the continuity of structural zones on the property across areas where there is no outcrop or drill hole data.

It is important to note that the CBSZ shear-hosted, lode gold- bearing system, also remains open along strike and is an order of magnitude larger (120- 150m wide vs. 5- 20m wide) than similar alteration/gold mineralized systems reported (and mined) to date in the Chibougamau- Chapais mining camp.

Northern Superior has also defined the structural controls of the mineralized system, as well as the location of several potential new areas of mineralization, necessary to direct future drill programs on the property.

Mineralization within the CBSZ is generated by a combination of the following controls:

1. Dilational zones generated by regional east- west shearing accompanied by reverse thrust faulting and isoclinal folding;
2. Physio-chemical and rheological controls that exist within the CBSZ at the contact between a series of felsic to intermediate tuffaceous sediments and basalt and gabbroic rocks; and
3. The presence of felsic intrusive dykes (feldspar porphyry dykes) that act as loci for high grade mineralization within the CBSZ as seen in Trench 05 and reported previously in drill holes testing the CBSZ.

Dr. T.F. Morris, president and CEO states: "We are very excited to have successfully exposed one of four high grade shoots identified so far within the CBSZ. With 50 metre collar spacing from a limited number of drill holes completed to date within the CBSZ (44-holes), the potential for more of these shoots certainly exists. As a result of the 2014 exploration program, we now have a comprehensive understanding of the structural controls that exist on the property and recognize that the CBSZ is a small part of a larger system, as evident from the extension of the shear zone associated with the CBSZ a further 9.8 kilometres to the east. The Company looks forward to completing the compilation of all geoscientific data to identify specific drill targets for future exploration in 2015."

### **About Northern Superior**

The Croteau Est property is one of four mineral properties that Northern Superior is actively exploring. The other three properties (Lac Surprise, Grizzly and TPK) also represent regional- scale exploration programs, either 100% owned and operated by Northern Superior, or Northern Superior having the right to earn a 100% interest in the properties. Exploration to date has identified numerous drill- ready targets for gold, copper and silver mineralization on the Ti-pa-kaa-haa-ning (TPK) property in northwestern Ontario, gold/ volcanic copper- zinc- silver and magmatic nickel- copper- platinum- palladium mineralization are targeted on the Grizzly property, and shear- hosted gold on the Company's Lac Surprise property, both located in west-central Québec.

The Company's Qualified Person ("QP") for the Croteau Est property is Ron Avery (P.Geo.). As the QP, Mr. Avery has prepared or supervised the preparation of the scientific and technical information for this program and has verified the data disclosed in this press release.

Northern Superior is a reporting issuer in British Columbia, Alberta, Ontario and Québec, and trades on the TSX Venture Exchange under the symbol SUP.

### **For Investors**

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