

ASSESSMENT REPORT

BASED ON THE

2013 GEOLOGICAL MAPPING/PROSPECTING
PROGRAM

North Range Property
Foy, Wisner and Bowell Townships

Leigh Allen, B.Sc., G.I.T
November 25th, 2014

SUMMARY

This report describes the work completed for the geological mapping and prospecting program carried out between July 3rd and October 30th, 2013, concentrated in the Bowell Township.

The geological mapping and prospecting was performed on the North Range claims group that is held by FNX Mining Inc., a wholly owned subsidiary of KGHM International.

The total expenditures for the work reported herein were \$41,675.00.

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INTRODUCTION

The North Range property consists of 6832 hectares of contiguous claim blocks (Appendix A) comprising 48 individual claims (445 claim units). The claims were originally recorded by Aurora Platinum Corporation between April 2000 and January 2004, which was acquired by FNX Mining Company Inc. of Sudbury, Ontario in July 2005. The claims are currently held by FNX Mining Inc., a wholly owned subsidiary of KGHM International.

CLAIM STATUS

Work reported herein was conducted on 11 of the 48 North Range leased claims (Table 1), wholly owned by KGHM International.

Table 1: North Range claims worked on in 2013

Township/Area	Claim Number	Claim Due Date	Total Claim Units	Work Required
Bowell	1237190	2014-Apr-17	8	\$3,200
Bowell	1237191	2014-Apr-14	2	\$800
Bowell	1239318	2014-Apr-14	16	\$6,400
Bowell	1239319	2014-Apr-14	4	\$1,600
Bowell	1239320	2014-Apr-17	16	\$6,400
Bowell	1239322	2014-Apr-17	16	\$6,400
Bowell	1247367	2014-Oct-13	9	\$3,600
Bowell	3019456	2014-Jan-12	16	\$6,400
Bowell	3019457	2014-Jan-12	15	\$6,000
Bowell	3019458	2014-Jan-12	15	\$6,000
Bowell	3019460	2014-Jan-12	15	\$6,000

PROPERTY LOCATION AND ACCESS

The North Range property is located in the Sudbury mining district, approximately 50 km north of the city. It covers the northern half of Wisner and Bowell Townships and the east-central portion of Foy Township, and is roughly centered at UTM 494700E and 5180200N. The property is accessible by seasonal logging roads and all-terrain vehicle (ATV) trails. Detailed driving directions to the western half of the property are printed on the map in Figure 1.

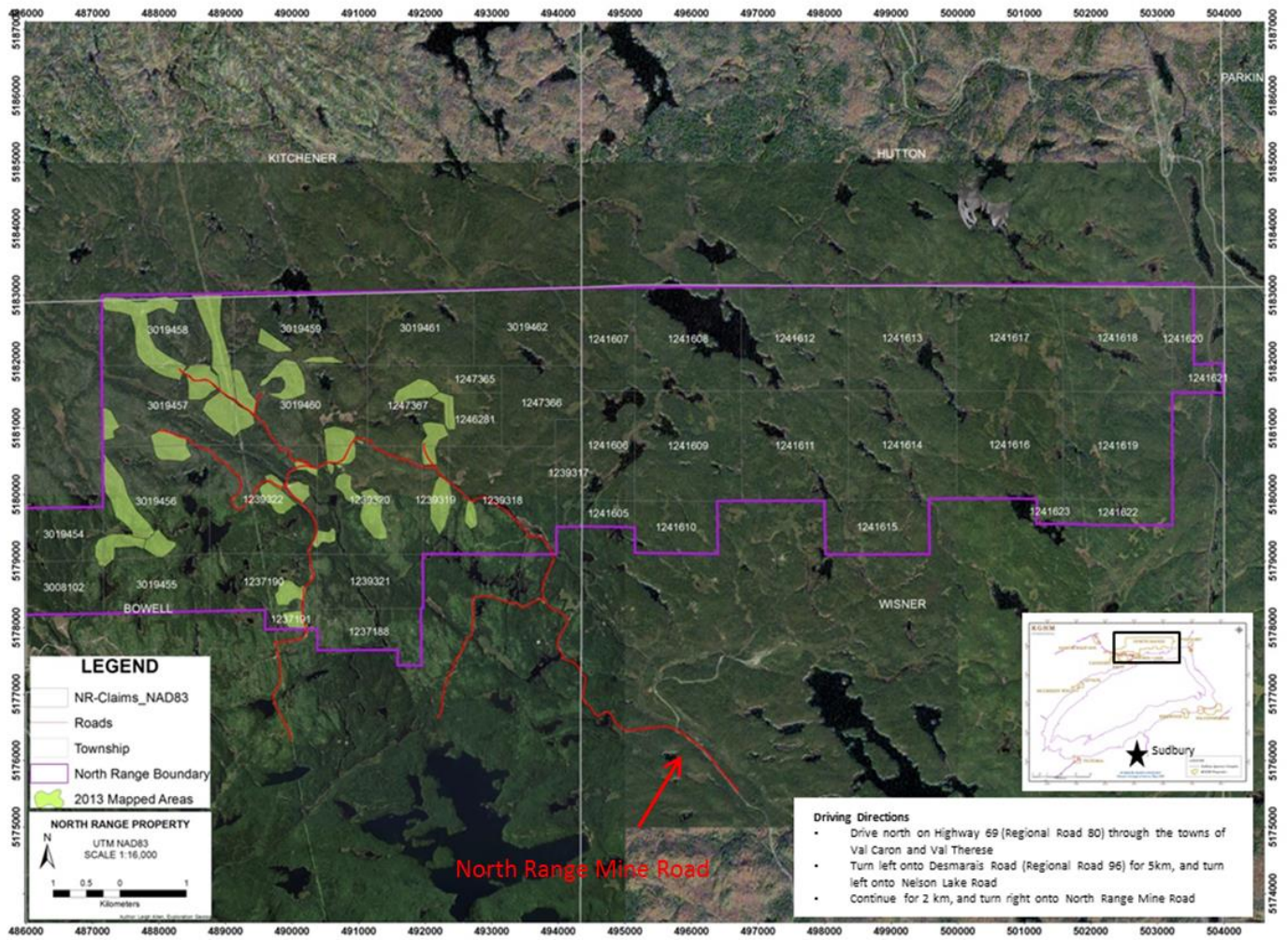


Figure 1: Access to North Range claims group from the city of Sudbury.

REGIONAL GEOLOGY

The Sudbury Basin, widely accepted to be the result of a meteorite impact 1.85 billion years ago (Krogh et al., 1984), is an elliptical geologic structure approximately 27 km wide by 60 km long located just north of the city of Sudbury. The resultant crater was infilled with magma containing nickel-copper-platinum-palladium-gold as well as other by-product metals. The ore material settled out of the magma and collected in topographic lows or traps along the lower contact of the Sudbury Igneous Complex (SIC), or within offset dykes which radiate outwards from the Sudbury Basin into the country rock. Some ore metals were later re-mobilized and deposited into the pseudotachylite known as Sudbury breccia (Rousell et al., 2002), which occurs in the footwall to the SIC.

Mineralization associated with the SIC occurs at or near the contact of the SIC with the surrounding country rock or within offset dykes. Contact deposits are nickel-rich and located in traps and/or embayments at the base of the SIC. The copper-nickel-platinum-palladium – rich footwall deposits occur in the Sudbury breccia below, and often in the shadow of the contact deposits. Nickel-copper-platinum-palladium – rich sulfides associated with quartz diorite offset dykes that radiate outward from the edges of the Sudbury Basin are often concentrated in areas of constriction. Post-magmatic deformation of the southern margins of the SIC has resulted in re-concentration of metals in structurally controlled settings.

The SIC consists of four main units, which are, from bottom to top: the contact sublayer (a discontinuous mineralized, xenolith-bearing norite), norite, quartz gabbro, and granophyre (Naldrett, 1984). The contact sublayer at the base of the SIC occupies kilometre-scale radial depressions, referred to as embayment structures. Ni-Cu deposits are localized within these structures in smaller sub-horizontal structures called terraces. Footwall breccia (also known as anatectite or as (late) granite breccia), a xenolith-bearing metamorphic to igneous-textured breccia, underlies the contact sublayer discontinuously, predominantly along the North and East ranges. Granite Breccia commonly contains Ni-Cu sulfide mineralization. The Sudbury breccia can occur from the contact with the SIC up to several tens of kilometres from the SIC and is of significance as a host for Cu-Ni-PGE mineralization proximal to the SIC contact and lower sulfide Cu-PGE mineralization further away from the SIC contact.

PROPERTY GEOLOGY

The footwall rocks north of the SIC on the North Range property are dominantly Archean granitoids of the Cartier Batholith (Meldrum et al., 1997) and an assortment of migmatites and hybrid gneisses, as well as Matachewan and Nipissing mafic dykes and Sudbury breccia.

The granitoids and hybrid gneisses are primarily granodioritic in composition but range between quartz monzonitic and tonolitic material. They are medium- to coarse-grained, are usually moderately to strongly foliated and migmatitic but may also be massive, and are usually potassium feldspar-altered. Occasional epidote alteration or veining is present. Inclusions in the granitoids are commonly intermediate to mafic gneiss or gabbro. Inclusions range from less than ten to hundreds of meters in size.

A swarm of NW to N with subordinate NE-trending diabase dykes belonging to the Matachewan and Nipissing dyke swarms (Card and Meyn, 1969) cross-cuts the granitoids and gneisses. The

dykes are generally dark greenish-black, fine- to medium-grained, equigranular and weakly to strongly magnetic. The dykes occasionally contain trace pyrite.

The majority of the Sudbury breccia observed in outcrop is present as clast-poor veins, ranging from 1 inch to 5 feet wide. The matrix is generally black and aphanitic, usually between 70-85%, with 15-30% local granitoid clasts with sharp contacts. The matrix is occasionally epidote-altered, with rare instances of chlorite veining. Occasionally trace sulfide mineralization was observed in grab samples, usually pyrite and/or pyrrhotite with possible instances of chalcopyrite.

EXPLORATION HISTORY

A variety of exploration programs have been conducted on the North Range claims, including: six geophysical surveys, including an AeroTEM survey in 2000 and a MegaTEM survey in 2001; four mapping/prospecting programs, two of which used Beep-Mat technology, between 2001 and 2004; two surface geochemical surveys (soil and humus sampling) between 1988 and 1989; and one diamond drilling program (10 holes drilled to test a shallow GEM-2 anomaly – 277 samples returned no anomalous assay values). The locations, directions, dips and lengths of these drill holes can be seen below in Figure 2. Much of this work was conducted on the eastern portion of the Claims Group.

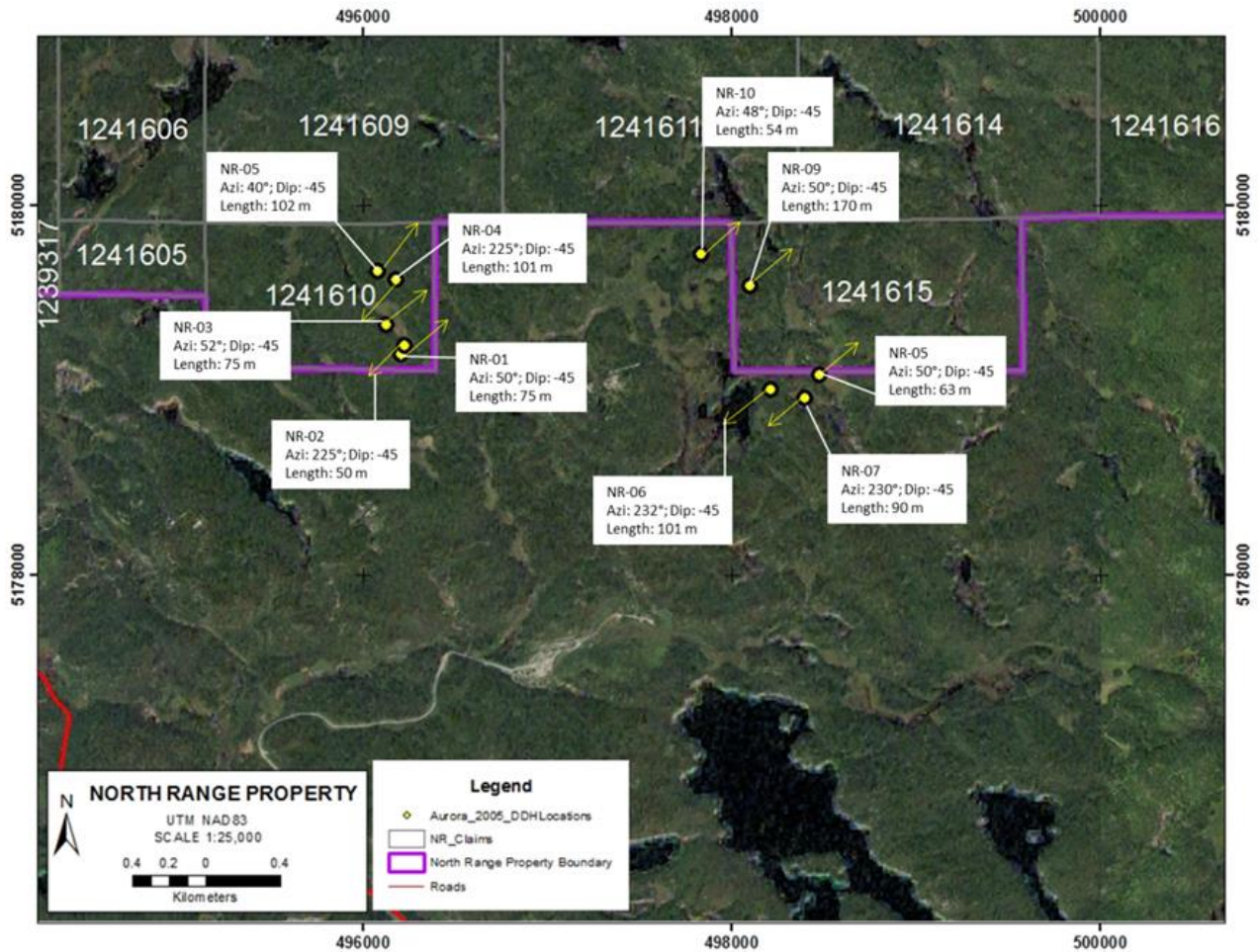


Figure 2: Aurora Platinum Corp. Diamond Drill Hole Locations from 2005 Drill Program

2013 GEOLOGICAL MAPPING/PROSPECTING PROGRAM

Introduction

Between July and October 2013, a mapping/prospecting program was undertaken on the North Range property. 11 out of the 48 claims, focusing on the western side of the North Range claims group, were visited, mapped, and sampled during the 2013 work program (Table 1). The aim of this program was to identify features that may indicate whether the ground is prospective for Ni-Cu-PGE mineralization. In addition, the results of the mapping/prospecting program are used in conjunction with previous work performed on the property, to determine whether further exploration is warranted on the claims or if they should be released.

Methodology

The surface mapping/prospecting program on the North Range property took place between July 3rd, 2013 and October 30th, 2013, with approximately 45 days spent in the field. Each day, two geologists were tasked with mapping outcrops, taking geological structure measurements, and sampling where appropriate. One truck was supplied for transportation to the North Range property. Two all-terrain vehicles were transported to and parked on the property for approximately half the duration of the work program to assist with access to areas not approachable by truck.

The North Range claims were sectioned into manageable blocks for outcrop mapping, 1.5 km wide by 2 km long, and mapped at the 1:10,000 scale. There was no specific grid pattern set up to follow during traverses; mapping was focused on areas that had not been covered in past years. Due to the abundance of outcrop in the mapping area, stations were spaced at approximately 100-200 m apart or at any change in rock type. A photo was taken at the vast majority of stations (a fresh and weathered face of the outcrop wherever possible) and catalogued according to outcrop/sample number (e.g. NR13-xxx).

The procedure for sample collection involved collecting a freshly broken piece of outcrop, bagging the sample and cataloguing it. All samples were completely described at the end of the field season and select representative samples were sent for assay. Samples were taken at every occurrence of Sudbury breccia, mineralization, extreme epidote alteration, and in zones of structure (faults).

Structural measurements were taken with Suunto MC-2 compasses and outcrop station locations were taken using a handheld Garmin GPS.

The paper map generated from the 2013 mapping/prospecting program was digitized by CAD technicians to produce a 1:10,000 scale outcrop map of the North Range property.

Personnel

The names, positions and roles of the FNX Mining Inc. personnel involved in the 2014 mapping/prospecting program are outlined in Table 2.

Table 2: FNX Mining Inc. personnel involved in the 2013 mapping/prospecting program

Name of Employee	Position	Role
Steven Gregory	Senior Project Geologist	Project Direction/Supervision
Leigh Allen	Exploration Geologist	Mapping/Data Collection/Project Planning
Chelsey Protulipac	Exploration Geologist	Mapping/Data Collection/Project Planning
Gerry Shields	Senior Technician	Vehicle Maintenance
Dave Leblond	CAD Technician	Digitizing

RESULTS

The end of the 2013 mapping/prospecting program yielded 207 outcrop stations, spread out across 11 claims in the western half of the North Range property (Figure 3), in areas where previous mapping had not reached. A complete list of mapped outcrops is presented in Appendix B. A total of 32 representative samples were taken (Figure 4). 26 total outcrops contained some instance of Sudbury breccia, however only 5 of those had any visible mineralization (ranging between trace disseminated pyrrhotite to up to 3% cubic pyrite, with two instance of possible trace chalcopyrite).

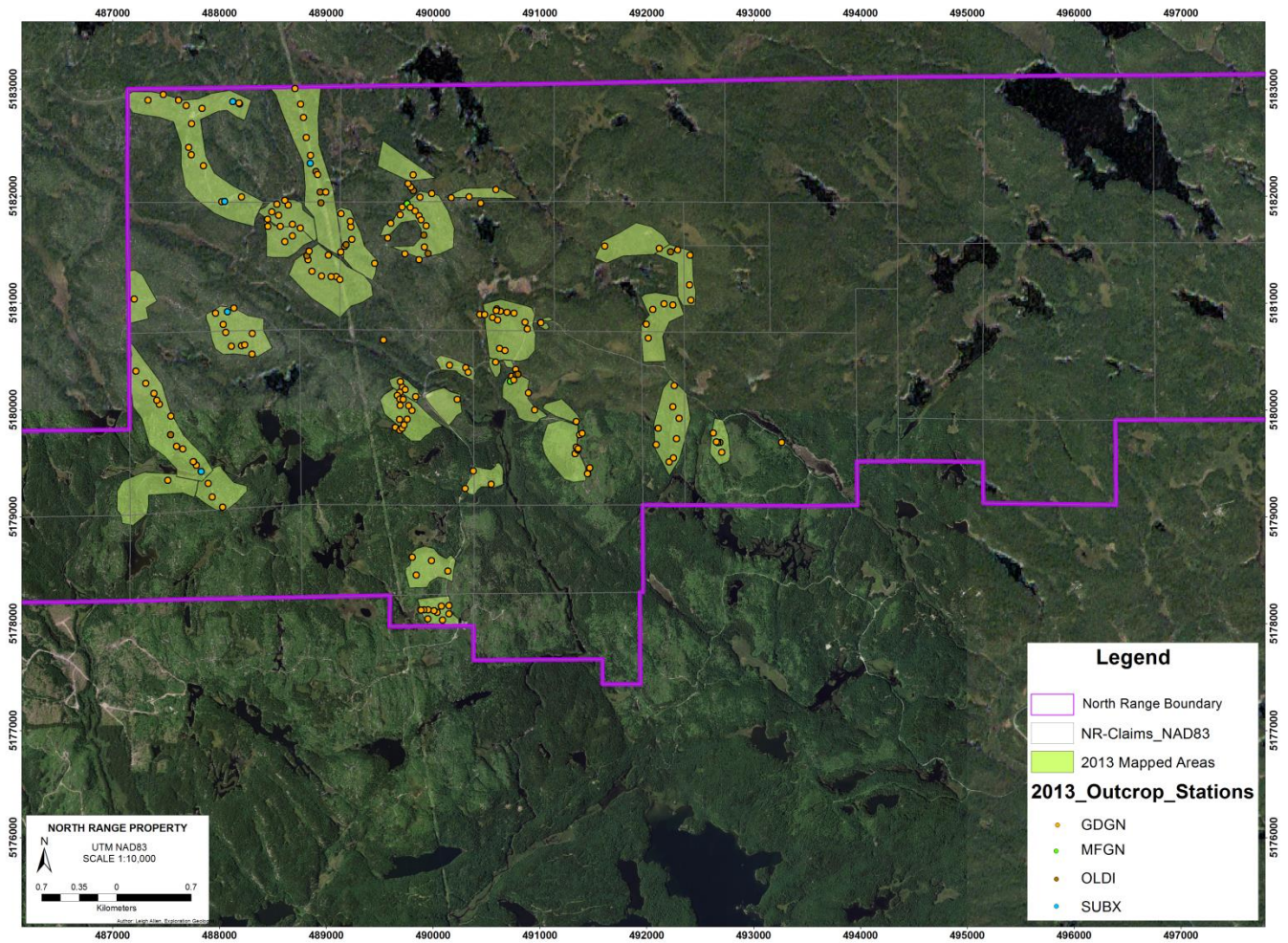


Figure 3: 2013 outcrops and mapping coverage on the western half of the North Range property.

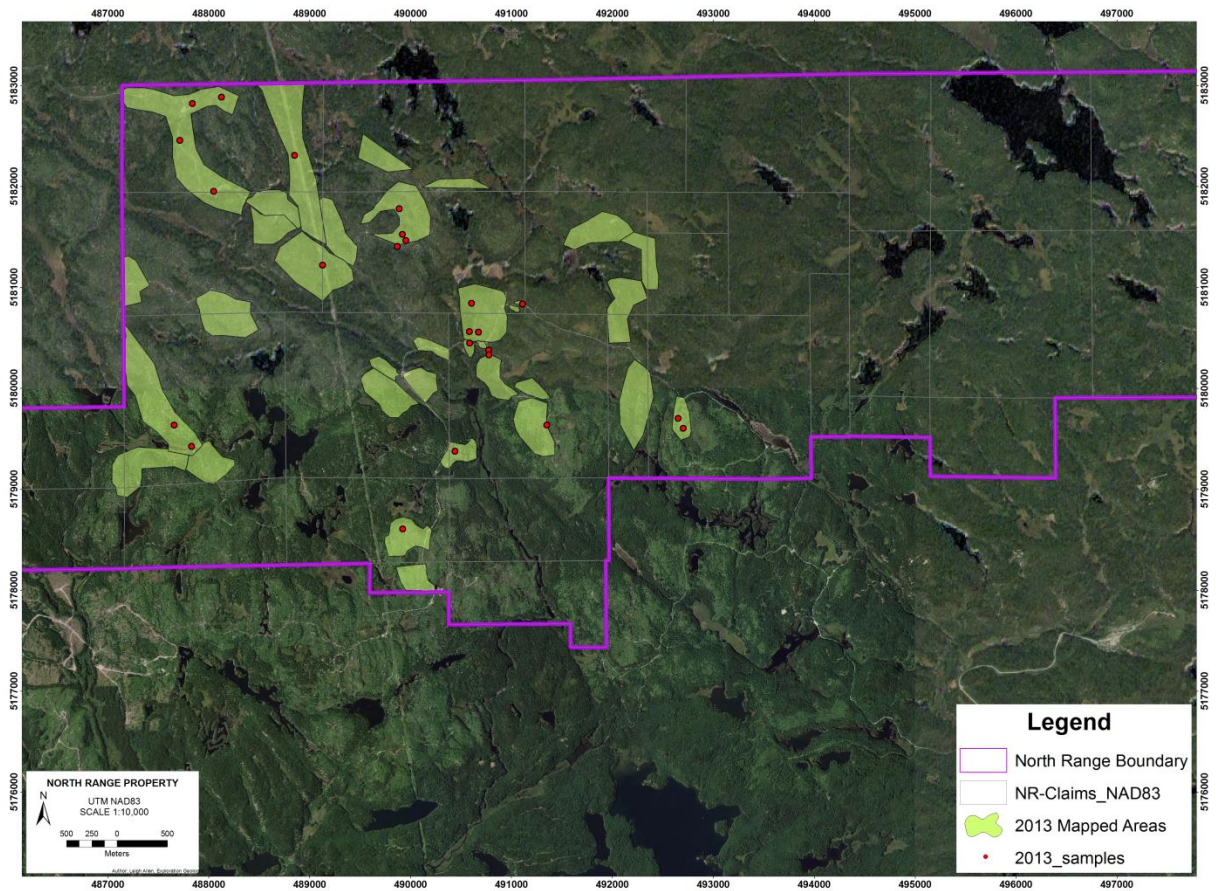


Figure 4: Locations of grab samples taken during the 2013 mapping/prospecting program on the North Range property.

Combining the results of this year’s mapping program with previous mapping as well as referencing the AeroTEM survey flown in 2000, a preliminary surface geology map for the western half of the property was produced at the 1:10,000 scale (Figure 5).

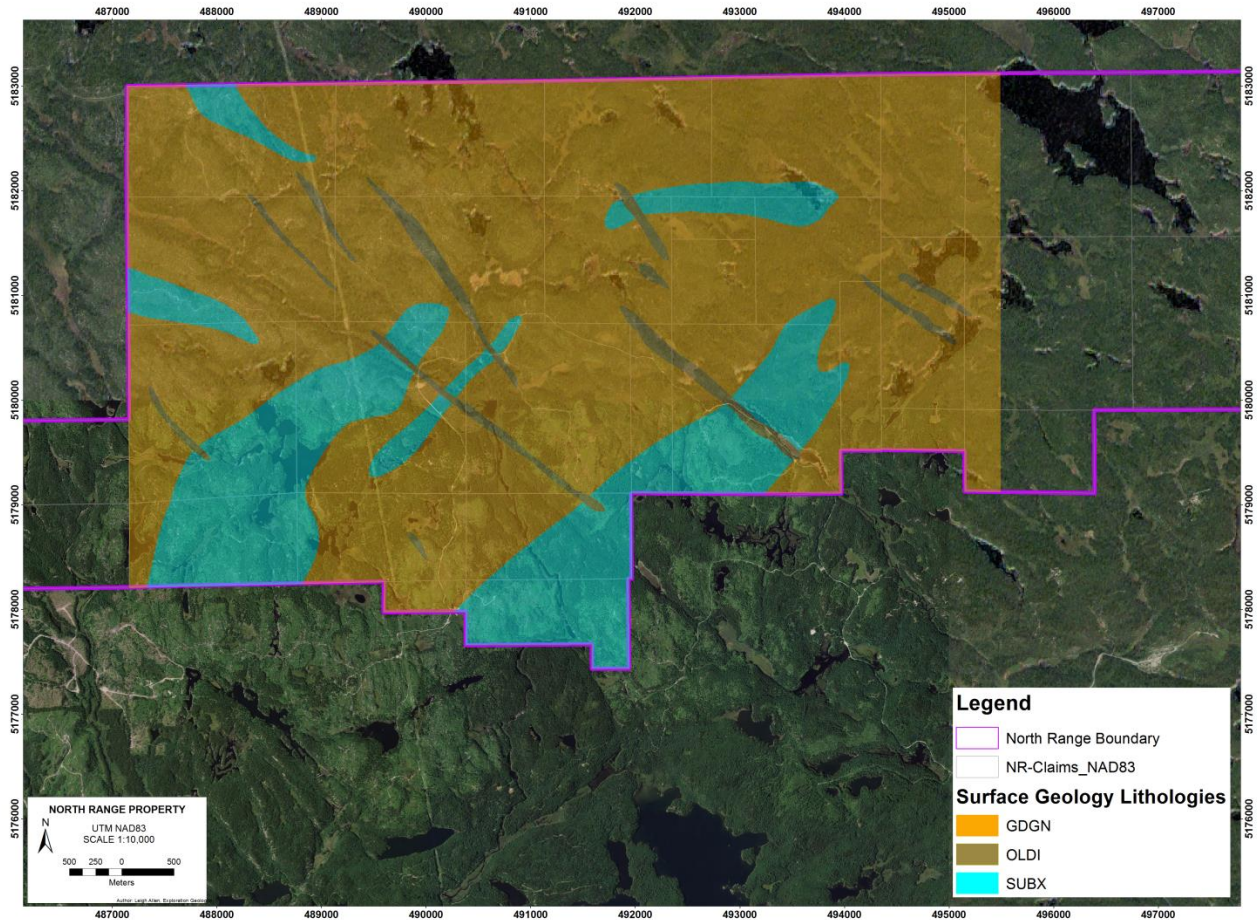


Figure 5: Surface geology map of the western half of the North Range property.

Recommendations

The following table is a summary of recommendations to either continue exploration on or release the 18 claims investigated and summarized this year. Recommendations take into account geochemical surveys, previous mapping, this year's mapping, and field sampling/assay results (Appendix C).

Table 3: Recommendations for 18 North Range claims investigated in 2013.

Claim Number	Geochemical Surveys	Geophysical Surveys	Mapping/Sampling Projects	Recommendation
1237188	No geochemical anomalies	Covered by all surveys -no anomalies	Well covered by previous mapping/sampling – no anomalies	Drop (Need to keep due to geographic location)
1237190	One Au anomaly (between 100-200 ppb)	Covered by all surveys -no anomalies	No anomalous values in previous sampling programs – well covered. No anomalous values from 2013 assay results.	Drop
1237191	No geochemical anomalies	Covered by all surveys -no anomalies	1 historical anomalous values (572 ppm Cu). No anomalous values from 2013 assay results	Drop
1239317	No geochemical anomalies	Covered by AeroTEM – no anomalies	Moderately covered in previous mapping/sampling – no anomalies	Drop (need to keep due to geographic location)
1239318	1 Humus anomaly (542 ppm Cu), 3 Soil anomalies (Pt 16-22 ppb)	Covered by AeroTEM – no anomalies	Numerous SUBX outcrops, 4 mineralized SUBX samples taken, but no anomalous assay results Well covered in previous mapping – no anomalies	Drop (need to keep due to geographic location)
1239319	No geochemical anomalies	Covered by all surveys -no anomalies	2013 mapping: Several SUBX outcrops, no samples taken No anomalous values in previous sampling programs	Drop (need to keep due to geographic location)
1239320	~1/4 of claim covered; no geochemical anomalies	Anomaly present in MegaTEM survey	2013 mapping: No SUBX outcrops found, mineralization found in gneisses and OLDI, samples cut with saw, however no anomalous values in assay results 2 historical anomalous samples (956 ppm Cu, 79 ppb Pt)	Drop (need to keep due to geographic location)
1239321	2 Soil anomalies (91 ppm Cu, 158 ppm Cu/58ppm Ni)	Covered by all surveys -no anomalies	Well covered by previous mapping/sampling – no anomalies	Drop (Need to keep due to geographic location)
1239322	No geochemical anomalies	Anomaly present in MegaTEM survey	2013 mapping: Numerous SUBX outcrops but no samples taken this year 3 historical anomalous samples (547-680 ppm Cu)	Re-investigate
1246281	1 anomalous Soil (19 ppb Pt, 50 ppm Cu)	Covered by all surveys -no anomalies	Mapped in previous years, no cause observed to take samples	Drop
1247365	No geochemical anomalies	Covered by all surveys -no anomalies	Mapped in previous years, no cause observed to take samples	Drop
1247366	3 anomalous Soils (70-93 ppm Cu)	Covered by AeroTEM – no anomalies	Well covered in previous mapping/sampling – no anomalies	Drop
1247367	<1/4 of claim covered; no geochemical anomalies	Covered by all surveys -no anomalies	Well covered by previous mapping/sampling – no anomalies	Drop
3019455	½ covered by Geochem surveys – No anomalies	Covered by all surveys -no anomalies	Large amounts of SUBX in previous mapping – very few samples taken	Drop
3019456	No geochemical anomalies	Covered by all surveys -no anomalies	2013 mapping: One SUBX sample but contains little to no mineralization	Drop
3019457	N/A (area not covered in surveys)	Not covered by AeroTEM, MegaTEM	2013 mapping: Mineralized SUBX on northern border, no anomalous assay results returned	Drop
3019458	N/A (area not covered in surveys)	Not covered by AeroTEM, MegaTEM	2013 mapping: 5 mineralized SUBX samples, no anomalous assay results returned	Drop
3019459	N/A (area not covered in surveys)	~1/3 of claim covered by AeroTEM and MegaTEM – no anomalies	2013 mapping: No SUBX outcrops, no mineralization observed. Not covered by previous mapping/sampling programs	Drop
3019460	N/A (area not covered in surveys)	Covered by all surveys -no anomalies	2013 mapping: 3 mineralized SUBX samples, no anomalous assay results returned 1 historical anomalous sample (846 ppm Cu)	Drop

RECOMMENDED FUTURE WORK

No anomalous assay values were returned from the 30 samples taken during the 2013 mapping/prospecting program. As a result, along with consideration of results from previous geophysical/geochemical surveys and mapping programs, it has been recommended that the majority of claims analyzed during the work program be released. Future work on the North Range claims group includes gaining access to the eastern half of the property and performing a similar mapping/prospecting program in this region, as well as visiting the remainder of claims missed during this year's program. This will allow similar recommendations to be made on claims in the eastern half of the region, and thus determine the overall potential of the North Range property.

EXPENDITURES

Table 4: Expenditures related to the 2013 North Range Mapping/Prospecting Program

North Range 2013 Mapping/Prospecting Program Expenditures		
Salaries (KGHM-I Personnel)		
Senior Project Geologist (Project Supervision): 1 day @ \$450 / day	\$	450.00
Geologist (Cost Allocation, Reporting): 45 days @ \$300 / day	\$	13,500.00
Geologist (Cost Allocation, Reporting): 45 days @ \$300 / day	\$	13,500.00
AutoCAD Technicians (Data Processing): 2.5 days @ \$300 / day	\$	750.00
Technicians (Logistics): 15 days @ \$200 / day	\$	3,000.00
	Subtotal	\$ 31,200 .00
Transportation Costs		
Truck Rental (45 days @ \$45/day)	\$	2,025 .00
ATV Rental x2 (26 days @ 100\$/day)	\$	5,200.00
Mileage Costs for Truck (Avg. 100 km/day @ \$0.50/km)	\$	2,250.00
	Subtotal	\$ 9,475 .00
Sample Assays		
Samples K523501-K523521 (20 total @ \$50/sample)	\$	1,000.00
	Subtotal	\$ 1,000.00
	PROGRAM TOTAL	41,675.00\$

Claims 1237190, 1237191, 1247367, 3019456, 3019457, 3019458, and 3019460 were allowed to lapse prior to filing this work report. Credits associated with these claims were therefore not banked. Credits related to claims that remain 100% owned by FNX Mining Company Inc. (1239318, 1239319, 1239320, and 1239322) were banked evenly amongst these claims. The total amount banked to the remaining active claims is \$15,154.00.

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- Rousell, D.H., Fedorowich, J., and Dressler, B.O., 2002. Sudbury Breccia (Canda): a Product of the 1850 Ma Sudbury Event and Host to Footwall Cu-Ni-PGE Deposits. *Earth Science Reviews* 60 (2003), p. 147-174.

STATEMENT OF QUALIFICATION

I, Leigh K. Allen of the City of Greater Sudbury, Province of Ontario, do hereby certify that:

I am a geologist residing at 402 Albinson Street, Sudbury, Ontario, P3C 3W7;

I graduated from the University of Ottawa, Ottawa, Ontario (Bachelor of Science – Honours) in 2011.

I have been practicing in my profession as a geologist continuously since July 2011;

I am the author of the report entitled “2013 Geological Mapping/Prospecting Program on the North Range Property”, based on work completed by KGHM International between July 3rd, 2013 and October 30th, 2013.

I have no personal interest in the property covered by this report.

Dated in Sudbury, Ontario, this 25th day of November, 2014.



Leigh Allen, B.Sc., G.I.T

APPENDIX A: NORTH RANGE CLAIM GROUP

Township/Area	Claim Number	Claim Due Date	Total Claim Units	Work Required
BOWELL	1237188	2014-Apr-19	6	\$2,400
BOWELL	1237190	2014-Apr-17	8	\$3,200
BOWELL	1237191	2014-Apr-14	2	\$800
BOWELL	1239317	2014-Apr-14	4	\$1,600
BOWELL	1239318	2014-Apr-14	16	\$6,400
BOWELL	1239319	2014-Apr-14	4	\$1,600
BOWELL	1239320	2014-Apr-17	16	\$6,400
BOWELL	1239321	2014-Apr-17	8	\$3,200
BOWELL	1239322	2014-Apr-17	16	\$6,400
BOWELL	1246281	2014-Sep-01	4	\$1,600
BOWELL	1247365	2014-Sep-11	2	\$800
BOWELL	1247366	2014-Oct-13	8	\$3,200
BOWELL	1247367	2014-Oct-13	9	\$3,600
BOWELL	3008102	2014-Jun-27	6	\$2,400
BOWELL	3019454	2014-Jan-12	6	\$2,400
BOWELL	3019455	2014-Jan-12	8	\$3,200
BOWELL	3019456	2014-Jan-12	16	\$6,400
BOWELL	3019457	2014-Jan-12	15	\$6,000
BOWELL	3019458	2014-Jan-12	15	\$6,000
BOWELL	3019459	2014-Jan-12	15	\$6,000
BOWELL	3019460	2014-Jan-12	15	\$6,000
BOWELL	3019461	2014-Jan-12	12	\$4,800
BOWELL	3019462	2014-Jan-12	12	\$4,800
FOY	3008103	2014-Jun-27	4	\$1,600
FOY	3008104	2014-Jun-27	4	\$1,600
FOY	3008105	2014-Jun-27	2	\$800
FOY	3008106	2014-Jun-27	2	\$800
FOY	3011967	2014-Jan-12	4	\$1,600
FOY	3011968	2014-Jan-12	4	\$1,600
WISNER	1241605	2014-Apr-14	2	\$800
WISNER	1241606	2014-Apr-14	8	\$3,200
WISNER	1241607	2014-Apr-14	8	\$3,200
WISNER	1241608	2014-Apr-14	16	\$6,400
WISNER	1241609	2014-Apr-14	16	\$6,400
WISNER	1241610	2014-Apr-14	6	\$2,400
WISNER	1241611	2014-Apr-14	16	\$6,400
WISNER	1241612	2014-Apr-17	16	\$6,400
WISNER	1241613	2014-Apr-17	16	\$6,400
WISNER	1241614	2014-Apr-14	16	\$6,400
WISNER	1241615	2014-Apr-14	8	\$3,200
WISNER	1241616	2014-Apr-14	16	\$6,400
WISNER	1241617	2014-Apr-14	16	\$6,400
WISNER	1241618	2014-Apr-14	16	\$6,400
WISNER	1241619	2014-Apr-14	16	\$6,400
WISNER	1241620	2014-Apr-14	4	\$1,600
WISNER	1241621	2014-Apr-14	1	\$400
WISNER	1241622	2014-Apr-14	4	\$1,600
WISNER	1241623	2014-Apr-14	1	\$400

APPENDIX B: 2013 MAPPING RESULTS

Table 5: 2013 Mapping/Prospecting Program Outcrop Stations

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR13-001	493261	5179696	1302	Granite	-	-	-	Kspar alteration	LA, CP
NR13-002	492256	5180230	1302	Granite	-	-	-	Kspar alteration	LA, CP
NR13-003	492244	5180032	-	Granite	-	SUBX	-	-	LA, CP
NR13-004	492105	5179830	1371	Granite	-	-	-	Kspar alteration	LA, CP
NR13-005	492088	5179676	1401	Granite	-	-	-	Kspar alteration	LA, CP
NR13-006	492208	5179514	1358	Granite	-	-	-	Kspar alteration	LA, CP
NR13-007	492249	5179552	1422	Granite	-	-	-	Kspar alteration	LA, CP
NR13-008	492277	5179733	1399	Granite	-	-	-	Kspar alteration	LA, CP
NR13-009	492301	5179922	1406	Granite	-	-	-	Kspar alteration	LA, CP
NR13-010	492682	5179696	1365	Granite	-	QV	-	Kspar alteration	LA, CP
NR13-011	492664	5179695	1364	Mafic Gneiss	-	-	None visible	-	LA, CP
NR13-012	492702	5179605	1350	Granite	-	SUBX	None visible	Kspar, epidote alteration	LA, CP
NR13-013	492705	5179591	1352	Diabase	Fine	SUBX/Granite	Trace (?)	-	LA, CP
NR13-014	492650	5179703	1361	Granite Gneiss	-	SUBX	None visible	?	LA, CP
NR13-015	492621	5179785	1333	Granite Gneiss	-	OLDI?	-	Kspar alteration	LA, CP
NR13-016	488448	5181786	1320	Granite	Medium	-	-	Kspar alteration	LA, CP
NR13-017	488451	5181719	1323	Granite	-	-	-	Kspar alteration	LA, CP
NR13-018	488609	5181577	1377	Granite	-	MFGN/QV	-	-	LA, CP
NR13-019	488681	5181628	1342	Granite Gneiss	-	-	-	-	LA, CP
NR13-020	488756	5181704	1355	Granite	-	-	-	-	LA, CP
NR13-021	488681	5181737	1343	Granite	-	-	-	-	LA, CP

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR13-022	488569	5181720	1355	Granodiorite Gneiss	-	-	-	None	LA, CP
NR13-023	488474	5181811	1332	Diabase	Fine	GRGN	-	-	LA, CP
NR13-024	488424	5181852	1331	Diabase	Fine	-	-	None	LA, CP
NR13-025	488488	5181854	1360	Granite	-	-	-	Kspar alteration	LA, CP
NR13-026	488551	5181823	1385	Granodiorite Gneiss	-	-	-	-	LA, CP
NR13-027	488646	518130(?)	1395	Granite	-	-	-	Kspar alteration	LA, CP
NR13-028	488643	5181917	1387	Granite	-	-	-	Kspar alteration	LA, CP
NR13-029	488611	5181963	-	Diabase	Fine	-	-	-	LA, CP
NR13-030	488536	5181925	1310	Granite	-	-	-	Kspar alteration	LA, CP
NR13-031	490138	5178493	1361	Granite	-	-	-	Epidote alteration	LA, CP
NR13-032	489984	5178590	1411	Granite	-	-	-	-	LA, CP
NR13-033	489920	5178607	1391	Intermediate Intrusive (Gabbro?)	Medium	-	-	-	LA, CP
NR13-034	489803	5178622	1388	Granite	Coarse	-	-	Epidote alteration	LA, CP
NR13-035	489841	5178457	1407	Granite	-	-	-	-	LA, CP
NR13-036	490299	5179267	1371	Granodiorite Gneiss	-	-	-	-	LA, CP
NR13-037	490304	5180395	1322	Granite Gneiss	-	MFGN	-	-	LA, CP
NR13-038	490583	5180448	1299	Granite Gneiss	-	-	-	Epidote alteration	LA, CP
NR13-039	491108	5181835	1350	Diabase (?)	Medium	-	-	-	LA, CP
NR13-040	490376	5179429	-	Granite	Medium	QV	-	Epidote alteration	LA, CP
NR13-041	490438	5179376	-	Gabbro	Fine	SUBX	-	-	LA, CP
NR13-042	490542	5179306	-	Granite	-	-	-	Epidote alteration	LA, CP
NR13-043	490153	5180419	-	Granite	-	QV	-	Heavy kspar alteration	LA, CP

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR13-044	490327	5180354	-	Granodiorite Gneiss	Coarse	-	-	-	LA, CP
NR13-045	491007	5180816	-	Granite	-	SUBX	-	Kspar alteration	LA, CP
NR13-046	490225	5180100	-	Granite	Medium	-	-	Kspar alteration	LA, CP
NR13-047	489710	5180212	-	Granite	Coarse	-	-	-	LA, CP
NR13-048	489692	5180267	-	Granite	Medium	-	-	Kspar alteration	LA, CP
NR13-049	489738	5180193	-	Granodiorite Gneiss	-	-	-	-	LA, CP
NR13-050	489794	5180144	-	Gabbro/Diabase?	Medium	-	-	-	LA, CP
NR13-051	489835	5180125	-	Granite	-	Granodiorite Gneiss/Mafic Dyke	-	Minor hematite alteration	LA, CP
NR13-052	489133	5181479	1358	Granite	-	-	-	-	LA, CP
NR13-053	489171	5181532	1398	Granite	-	-	-	-	LA, CP
NR13-054	489183	5181546	1384	Diabase (possible OLDI?)	-	-	Trace	-	LA, CP
NR13-055	489238	5181596	1374	Granite	-	-	-	-	LA, CP
NR13-056	489229	5181714	1414	Granite	-	-	-	-	LA, CP
NR13-057	489224	5181767	1414	Granite	-	-	-	-	LA, CP
NR13-058	489136	5181837	1433	Granodiorite Gneiss	-	-	-	-	LA, CP
NR13-059	489452	5181372	-	Granodiorite Gneiss	-	-	-	-	LA, CP
NR13-060	488134	5180953	1401	Granite	Coarse	SUBX	-	Kspar, epidote alteration, some chlorite	LA, CP
NR13-061	488073	5180919	1394	SUBX	-	Granite	-	Kspar alteration	LA, CP
NR13-062	487962	5180907	1401	Granodiorite Gneiss	Coarse	-	-	Minor kspar alteration	LA, CP
NR13-063	488034	5180800	1404	Granodiorite Gneiss	Coarse	-	-	Minor kspar alteration	LA, CP
NR13-064	488056	5180727	1375	Granite	Coarse	SUBX	-	Kspar alteration	LA, CP
NR13-065	488110	5180597	1384	Granite	Medium	-	-	Kspar alteration	LA, CP
NR13-066	488204	5180603	1339	Granite	Medium	-	-	Kspar alteration	LA, CP

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR13-067	488234	5180611	1319	Granite	-	SUBX	-	Heavy kspar alteration	LA, CP
NR13-068	488303	5180522	1302	Granite	Medium	-	-	Heavy kspar alteration	LA, CP
NR13-069	488306	5180716	1381	Granite	Medium	-	-	Heavy kspar alteration, some epidote	LA, CP
NR13-070	489687	5180166	-	Granite Gneiss	-	-	-	Kspar alteration	LA, CP
NR13-071	489664	5180136	-	Granite Gneiss	-	QV	-	Kspar alteration	LA, CP
NR13-072	489688	5180102	-	Granite Gneiss	-	Mafic Dyke/QV	-	-	LA, CP
NR13-073	489691	5180044	-	Granite Gneiss	-	QV	-	Kspar alteration	LA, CP
NR13-074	489685	5179912	-	Granite Gneiss	-	-	-	-	LA, CP
NR13-075	489644	5179837	-	Granite Gneiss	-	-	-	Kspar alteration	LA, CP
NR13-076	489686	5179810	-	Granite Gneiss	-	-	-	Kspar alteration	LA, CP
NR13-077	489708	5179830	-	Granite Gneiss	-	-	-	-	LA, CP
NR13-078	489728	5179861	-	Granite Gneiss	-	-	-	-	LA, CP
NR13-079	489755	5179913	-	Granite Gneiss	-	-	-	-	LA, CP
NR13-080	489801	5179996	-	Granite Gneiss	-	-	-	-	LA, CP
NR13-081	489770	5180040	-	Granite Gneiss	-	SUBX	-	Heavy epidote alteration	LA, CP
NR13-082	489718	5180100	-	Granite Gneiss	-	-	-	Kspar alteration	LA, CP
NR13-083	490859	5180822	-	Granite Gneiss	Coarse	-	-	Kspar alteration	LA, CP
NR13-084	490757	5180907	-	Granite	-	-	-	Epidote alteration	LA, CP
NR13-085	490690	5180914	-	Granite	-	-	-	-	LA, CP
NR13-086	490629	5180924	-	Granite	Medium	-	-	Epidote alteration	LA, CP
NR13-087	490594	5180947	-	Mafic Dyke (OLDI?)	-	-	-	Trace hematite alteration	LA, CP
NR13-088	490590	5180931	-	Granite Gneiss	Coarse	-	-	Kspar alteration	LA, CP
NR13-089	490437	5180893	-	Granite	Medium	-	-	Kspar alteration	LA, CP
NR13-090	490481	5180893	-	Granite	Medium	-	-	Kspar alteration	LA, CP
NR13-091	490555	5180868	-	Granite Gneiss	Medium-Coarse	-	-	Kspar alteration	LA, CP

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR13-092	490603	5180843	-	Granite Gneiss	-	-	Trace (?)	Epidote alteration	LA, CP
NR13-093	490582	5180562	-	Diabase	Fine	-	Trace Po	-	LA, CP
NR13-094	490620	5180575	-	Granite Gneiss	Medium	-	-	-	LA, CP
NR13-095	490672	5180557	-	Granite	-	-	-	Heavy epidote alteration	LA, CP
NR13-096	490881	5180758	-	Granite Gneiss	-	-	-	Heavy kspar alteration	LA, CP
NR13-097	490771	5180379	-	Granite Gneiss	-	-	-	-	LA, CP
NR13-098	490736	5180316	-	Granite Gneiss	-	-	-	-	LA, CP
NR13-099	490722	5180270	-	Mafic Gneiss	-	-	-	Minor surface oxidation	LA, CP
NR13-100	490753	5180283	-	Granite Gneiss	Coarse	-	-	-	LA, CP
NR13-101	490775	5180332	-	Mafic Dyke (possible OLDI)	Fine-Medium	-	-	Minor surface oxidation	LA, CP
NR13-102	490793	5180336	-	Olivine Diabase	Fine-Medium	Mafic Gneiss	-	Minor surface oxidation	LA, CP
NR13-103	490890	5180161	-	Granite Gneiss	-	-	-	-	LA, CP
NR13-104	491443	5179404	-	Granodiorite Gneiss	Medium-Coarse	-	None visible	-	LA, CP
NR13-105	491465	5179460	-	Granodiorite Gneiss	Medium-Coarse	-	-	-	LA, CP
NR13-106	491327	5179592	-	Granodiorite Gneiss	Medium	-	-	Minor epidote alteration, strong kspar alteration	LA, CP
NR13-107	491353	5179625	-	Olivine Diabase	Fine	-	-	-	LA, CP
NR13-108	491348	5179637	-	Olivine Diabase	Fine	-	-	-	LA, CP
NR13-109	491338	5179652	-	Granodiorite Gneiss	Medium-Coarse	-	-	Heavy kspar alteration	LA, CP
NR13-110	491357	5179638	-	Granodiorite Gneiss	Coarse	Mafic Gneiss	-	-	LA, CP
NR13-111	491370	5179769	-	Granodiorite Gneiss	Medium-Coarse	-	-	Kspar alteration	LA, CP
NR13-112	491395	5179781	-	Granodiorite Gneiss	Coarse	-	-	Kspar alteration	LA, CP
NR13-113	491337	5179892	-	Granodiorite Gneiss	Medium	-	-	-	LA, CP
NR13-114	490949	5180001	-	Granodiorite Gneiss	-	-	-	-	LA, CP

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR13-115	489574	5181610	1409	Granite Gneiss	-	-	-	-	LA, CP, PW, MS
NR13-116	489533	5180655	1410	Granodiorite Gneiss	Coarse	-	-	Kspar alteration	LA, CP, PW, MS
NR13-117	489603	5181747	1407	Granodiorite Gneiss	-	-	-	-	LA, CP, PW, MS
NR13-118	489691	5181827	1384	Granodiorite Gneiss	-	-	-	-	LA, CP, PW, MS
NR13-119	489708	5181900	1396	Granite	Medium	-	-	-	LA, CP, PW, MS
NR13-120	489757	5181931	1381	Mafic Gneiss	-	-	-	-	LA, CP, PW, MS
NR13-121	489784	5181897	1392	Granite	Medium	-	-	Heavy kspar alteration	LA, CP, PW, MS
NR13-122	489830	5181861	1393	Granite Gneiss	-	QV	-	-	LA, CP, PW, MS
NR13-123	489867	5181816	1385	Granodiorite Gneiss	-	-	-	Minor surface oxidation	LA, CP, PW, MS
NR13-124	489886	5181781	1373	Granodiorite Gneiss	-	OLDI	Trace	Minor epidote alteration (GDGN)	LA, CP, PW, MS
NR13-125	489932	5181724	1388	Granodiorite Gneiss	-	-	-	-	LA, CP, PW, MS
NR13-126	489911	5181636	1374	Olivine Diabase	-	-	-	-	LA, CP, PW, MS
NR13-127	489916	5181525	1375	Granodiorite Gneiss	-	SUBX	-	Minor epidote alteration	LA, CP, PW, MS
NR13-128	489952	5181465	1350	Olivine Diabase	-	SUBX	-	Minor epidote alteration	LA, CP, PW, MS
NR13-129	489866	5181407	1328	Granodiorite Gneiss	-	SUBX	-	Minor epidote alteration	LA, CP, PW, MS
NR13-130	489736	5181463	1348	Granodiorite Gneiss	-	-	-	-	LA, CP, PW, MS
NR13-131	490148	5178170	1421	Granodiorite Gneiss	-	-	-	-	LA, CP
NR13-132	490075	5178166	1401	Granite	Coarse	-	-	Kspar alteration	LA, CP
NR13-133	490036	5178106	1391	Granodiorite Gneiss	Medium-Coarse	-	-	Minor kspar alteration	LA, CP
NR13-134	490008	5178122	1388	Granodiorite Gneiss	-	Diabase	-	Moderate-strong epidote alteration (veining)	LA, CP
NR13-135	489951	5178130	1388	Granodiorite Gneiss	Coarse	-	-	Kspar alteration, minor surface oxidation	LA, CP

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR13-136	489912	5178131	1371	Granodiorite Gneiss	Coarse	-	-	-	LA, CP
NR13-137	489886	5178127	1339	Granodiorite Gneiss	Coarse	-	-	-	LA, CP
NR13-138	489950	5178045	1384	Granodiorite Gneiss	Coarse	-	-	Minor surface oxidation	LA, CP
NR13-139	490001	5178035	1358	Diabase	Fine-Medium	-	-	-	LA, CP
NR13-140	490087	5178036	1401	Granodiorite Gneiss	Coarse	-	-	Minor localized epidote alteration	LA, CP
NR13-141	490148	5178093	1362	Granodiorite Gneiss	Coarse	-	-	Epidote alteration (veining)	LA, CP
NR13-142	489017	5181449	1365	Granodiorite Gneiss	Coarse	-	-	Epidote alteration (veining)	LA, CP
NR13-143	489092	5181248	1434	Granodiorite Gneiss	-	-	-	-	LA, CP
NR13-144	489125	5181222	1427	Granodiorite Gneiss	-	SUBX (?)	-	Intense epidote veining	LA, CP
NR13-145	489044	5181247	1440	Granodiorite Gneiss	Coarse	-	-	-	LA, CP
NR13-146	488955	5181252	1463	Granite Gneiss	Coarse	-	-	Localized epidote alteration	LA, CP
NR13-147	488863	5181298	1450	Granite Gneiss	Coarse	-	-	Kspar alteration	LA, CP
NR13-148	488826	5181407	1440	Granite Gneiss	-	-	-	Kspar alteration, minor weak epidote alteration (veinlets)	LA, CP
NR13-149	488817	5181443	1434	Olivine Diabase	Fine	-	-	-	LA, CP
NR13-150	488837	5181486	1427	Granite Gneiss	-	QV	-	-	LA, CP
NR13-151	491606	5181534	1404	Granite	Coarse	-	-	Minor epidote alteration (veinlets), kspar alteration	LA, CP
NR13-152	492117	5181512	1463	Granite	-	-	-	-	LA, CP
NR13-153	492223	5181480	1473	Diabase (possible OLDI?)	Fine	-	-	-	LA, CP
NR13-154	492289	5181500	1480	Granite	Medium	-	-	Kspar alteration	LA, CP

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR13-155	492404	5181448	1493	Granite Gneiss	Medium	-	-	Kspar alteration	LA, CP
NR13-156	492399	5181172	1437	Granite Gneiss	Medium-Coarse	-	-	Kspar alteration	LA, CP
NR13-157	492412	5181029	1437	Granite Gneiss	Coarse	-	-	Kspar alteration	LA, CP
NR13-158	492243	5180983	1450	Granite Gneiss	-	-	-	-	LA, CP
NR13-159	492161	5180993	1453	Granite Gneiss	-	-	-	-	LA, CP
NR13-160	492054	5180940	1440	Granite Gneiss	-	-	-	Minor epidote alteration (veining)	LA, CP
NR13-161	491995	5180803	1424	Granite Gneiss	Coarse	-	-	Minor kspar alteration	LA, CP
NR13-162	492014	5180673	1427	Granite Gneiss	-	QV	-	Minor epidote alteration, minor kspar alteration	LA, CP
NR13-163	487892	5179314	1283	Granite Gneiss	Medium	-	-	-	LA, CP
NR13-164	487930	5179187	1322	Granite Gneiss	Medium	-	-	-	LA, CP
NR13-165	488028	5179091	-	Granite Gneiss	-	-	-	-	LA, CP
NR13-166	487515	5179342	1201	Granite Gneiss	-	-	-	Minor epidote alteration (veining)	LA, CP
NR13-167	487828	5179424	1319	SUBX	-	Granite Gneiss	Trace Po & Py	Strong epidote alteration, kspar alteration	LA, CP
NR13-168	487782	5179484	1348	Granite Gneiss	-	SUBX/Diabase	-	-	LA, CP
NR13-169	487755	5179517	1362	Olivine Diabase	Fine-Medium	-	-	-	LA, CP
NR13-170	487754	5179518	1358	Granite Gneiss	Coarse	SUBX	-	Epidote alteration	LA, CP
NR13-171	487656	5179637	1371	Granite Gneiss	-	OLDI	None visible	-	LA, CP
NR13-172	487598	5179660	1345	Granite Gneiss	Medium	-	-	Rare kspar alteration	LA, CP
NR13-173	487540	5179770	-	Olivine Diabase	Fine-Medium	Granite Gneiss	-	-	LA, CP
NR13-174	487543	5179943	1398	Granite Gneiss	-	-	-	Minor epidote alteration, strong kspar alteration, strong surface oxidation	LA, CP

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR13-175	487435	5180054	1381	Granite Gneiss	Medium	-	-	Kspar alteration, surface oxidation	LA, CP
NR13-176	487411	5180091	1381	Granite Gneiss	Medium	OLDI	-	Surface rusting, kspar alteration, epidote alteration (veining)	LA, CP
NR13-177	487385	5180155	1371	Granite Gneiss	-	-	-	Minor epidote veining, rare on surface	LA, CP
NR13-178	487308	5180249	1388	Granite Gneiss	-	-	-	Kspar alteration, minor surface oxidation	LA, CP
NR13-179	487216	5180365	1404	Granite Gneiss	Medium	-	-	Moderate kspar alteration	LA, CP
NR13-180	487199	5181038	1480	Granite Gneiss	-	SUBX	Trace Py	Moderate epidote alteration	LA, CP
NR13-181	487330	5182899	1388	Granite Gneiss	Medium	-	-	Kspar alteration, minor epidote veining	LA, CP
NR13-182	487473	5182952	1434	Granodiorite Gneiss	Medium	QV	-	-	LA, CP
NR13-183	487615	5182898	1430	Granodiorite Gneiss	Medium	QV	-	Moderate epidote veining	LA, CP
NR13-184	487686	5182848	1424	Granite Gneiss	Very Coarse	-	-	Heavy kspar alteration	LA, CP
NR13-185	487738	5182680	1401	Granite Gneiss	Coarse	-	-	Moderate kspar alteration	LA, CP
NR13-186	?	?	?	Granite Gneiss	Medium	-	-	Kspar alteration	LA, CP
NR13-187	487711	5182457	1440	Granite Gneiss	Medium-Coarse	SUBX	-	Heavy local epidote veining, intense surface oxidation	LA, CP

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR13-188	487733	5182387	1440	Granite Gneiss	-	Mafic Gneiss	-	-	LA, CP
NR13-189	487849	5182285	1437	Granodiorite Gneiss	-	-	-	Moderate kspars alteration	LA, CP
NR13-190	488188	5182864	1339	Granite Gneiss	Medium	-	-	Kspars alteration	LA, CP
NR13-191	488182	5182873	1342	Granite Gneiss	Medium	SUBX	-	Kspars alteration	LA, CP
NR13-192	488122	5182885	1345	SUBX	-	Granite Gneiss	Trace Po (?)	Localized epidote alteration	LA, CP
NR13-193	487836	5182823	1352	Granite Gneiss	Medium-Coarse	SUBX	-	Kspars alteration, epidote alteration	LA, CP
NR13-194	488021	5181948	1352	Granodiorite Gneiss	Medium-Coarse	-	-	-	LA, CP
NR13-195	488046	5181953	1355	SUBX	-	Granite Gneiss	Trace Py (?)	Strong epidote veining	LA, CP
NR13-196	488204	5181995	1355	Granodiorite Gneiss	Medium-Coarse	SUBX	-	Quartz+kspars and epidote veining	LA, CP
NR13-197	488705	5183008	1443	Granite Gneiss	-	-	-	Quartz+kspars veining	LA, CP
NR13-198	488758	5182863	1404	Granodiorite Gneiss	Medium	-	-	Kspars alteration	LA, CP
NR13-199	488785	5182737	1394	Granite Gneiss	Medium	QV	-	-	LA, CP
NR13-200	488812	5182549	1450	Granite Gneiss	Fine-Medium	-	-	Epidote (chlorite?) veining	LA, CP
NR13-201	488852	5182383	1444	Granite Gneiss	Medium	-	-	Minor kspars alteration, minor epidote veining	LA, CP

Outcrop Station	Easting	Northing	Elevation	Major Rock	Grain Size	Minor Rock	Mineralization	Alteration	Team
NR13-202	488849	5182310	1424	SUBX	-	Granite Gneiss	0.25% Py/Po	Minor kspar alteration	LA, CP
NR13-203	488902	5182231	1391	Olivine Diabase	Fine	-	-	-	LA, CP
NR13-204	488916	5182204	1394	Granite Gneiss	-	-	-	Minor kspar alteration, rare epidote veinlets	LA, CP
NR13-205	488942	5182039	1394	Olivine Diabase	Fine-Medium	-	-	-	LA, CP
NR13-206	488993	5182040	1391	Granite Gneiss	Medium-Coarse	-	-	Strong epidote alteration	LA, CP
NR13-207	488949	5181938	1342	Olivine Diabase	Fine	Granite Gneiss	-	Kspar alteration	LA, CP
NR13-208	490335	5181995	1381	Granite	Medium	-	-	Minor epidote veining	LA, CP
NR13-209	490445	5181937	1348	Granite	Medium	-	-	Weak epidote alteration	LA, CP
NR13-210	490588	5182064	1371	Granite	Medium	-	-	Kspar alteration	LA, CP
NR13-211	490168	5181986	1342	Granodiorite Gneiss	Medium	-	Trace Po	-	LA, CP
NR13-212	489986	5182025	1352	Granodiorite Gneiss	Medium-Coarse	-	-	-	LA, CP
NR13-213	489875	5181991	1342	Granodiorite Gneiss	-	-	-	Surface oxidation	LA, CP
NR13-214	489814	5182051	1345	Olivine Diabase	Fine	-	-	-	LA, CP
NR13-215	489791	5182087	1362	Granodiorite Gneiss	Medium	-	-	Kspar alteration	LA, CP
NR13-216	489764	5182118	1378	Granodiorite Gneiss	Medium	-	-	-	LA, CP
NR13-217	489811	5182201	1391	Granodiorite Gneiss	-	-	-	-	LA, CP

Table 6: 2013 Mapping/Prospecting Program Outcrop Structures

Outcrop Station	Easting	Northing	Elevation	Structure Type	Azimuth	Dip
NR13-003	492224	5180008	-	Trend of SUBX vein	255	?
NR13-003	492226	5180005	-	Trend of SUBX vein	310	?
NR13-031	490138	5178493	-	Orientation of quartz vein with some rust	74	?
NR13-072	489688	5180105	-	Contact (Mafic Dyke and GRGN)		
NR13-102	490793	5180336	-	Contact (OLDI and MFGN)	155	?
NR13-110	491357	5179638	-	Contact (GDGN and MFGN)	15	?
NR13-124	489886	5181781	1373	Contact (OLDI and GDGN)	180	?
NR13-169	487755	5179517	1362	Contact (GRGN and OLDI)	130	?
NR13-173	487540	5179770	-	Contact (OLDI and GRGN)	75	?
NR13-176	487411	5180091	1381	Contact (OLDI and GRGN)	110	?

Table 74: 2013 Mapping/Prospecting Program – Detailed Grab Sample Descriptions



Outcrop Station	Sample Number	Easting	Northing	Elevation	Claim Block	Major Rock Type	Minor Rock Type	Mineralization	Description
NR13-012	NR13-012A	492702	5179605	1350	1239318	Granite Gneiss	SUBX	1-2% sulfide (rust)	Quartz-epidote veining, GRGN with minor SUBX matrix
NR13-012	NR13-012B	492702	5179605	1350	1239318	Granite Gneiss	SUBX	1-2% sulfide (rust)	Quartz-epidote veining, GRGN with minor SUBX matrix
NR13-012	NR13-012C	492702	5179605	1350	1239318	Granite Gneiss	SUBX	1-2% sulfide (rust)	Quartz-epidote veining, GRGN with minor SUBX matrix
NR13-014	NR13-014A	492650	5179709	-	1239318	Granite Gneiss	SUBX	1% disseminated Po, 0.5% blebby Cp	Irregular breccia matrix, brecciated mafic blocks, irregular rusty spots
NR13-033	NR13-033A	489920	5178607	1391	1237190	Mafic Intrusive	-	Trace disseminated Po	Intrusive rock, probable mafic but possible intermediate? Blue-grey matrix with plagioclase porphyroblasts partially replaced by epidote (?). Trace disseminated Po in matrix as well as porphyroblasts
NR13-038	NR13-038B	490583	5180448	1299	1239320	Mafic Gneiss	-	1% disseminated to blebby Po	Alternating mafic and felsic bands, partial melting of epidote alteration. Disseminated to blebby Po associated with mafic bands. Rust spots associated with small quartz veins within mafic bands.
NR13-038	NR13-038C	490583	5180448	1299	1239320	Mafic Gneiss	-	0.5% disseminated Po, 0.25% blebby Cp	Alternating mafic and felsic bands. Disseminated to blebby Po associated with mafic bands. Blebby Cp within small quartz veins within mafic bands.
NR13-039	NR13-039A	491108	5180835	1351	3019460	OLDI	-	None visible	Fine-medium-grained, mafic, equigranular, strongly magnetic
NR13-041	NR13-041A	490438	5179376	-	1239320	Granite Gneiss	Gabbro	0.25% Py	Coarse-grained, partially melted granitic gneiss with sharp contact to medium-grained equigranular gabbro with minor chill margin. Very weakly magnetic

Outcrop Station	Sample Number	Easting	Northing	Elevation	Claim Block	Major Rock Type	Minor Rock Type	Mineralization	Description
NR13-041	NR13-041B	490438	5179376	-	1239320	Gabbro	SUBX	Trace Py	Medium-grained, weakly magnetic gabbro (possible coarser-grained OLDI), hosting an aphanitic SUBX vein, sharp vein walls, 10% plagioclase-rich partially melted clasts
NR13-092	NR13-092A	490603	5180843	-	3019460	Granite	-	None visible	Coarse-grained, epidote- and kspar-altered granite. No visible mineralization
NR13-093	NR13-093A	490582	5180562	-	1239320	OLDI	-	None visible	Fine-grained, mafic, equigranular, weakly magnetic
NR13-095	NR13-095A	490672	5180557	-	1239320	Granite	-	None visible	Coarse-grained, kspar-rich granite with very strong epidote veining (~50% of sample)
NR13-097	NR13-097A	490771	5180379	-	1239320	Granodiorite Gneiss	Mafic (encalves, distorted banding?)	Trace disseminated Po	Coarse-grained, very qtz+plag-rich (85%) with little mafic. No banding visible. Mafic enclave is fine-grained, very weakly magnetic
NR13-101	NR13-101A	490775	5180332	-	1239320	Mafic Dyke (OLDI?)	-	Trace disseminated Po	Medium-grained, equigranular, mafic, weakly magnetic
NR13-108	NR13-108A	491348	5179637	-	1239320	OLDI	-	Trace disseminated Po	Fine to medium-grained, mafic, equigranular, strongly magnetic
NR13-124	NR13-124A	489886	5181781	1373	3019460	OLDI	-	Trace disseminated Po	Fine to medium-grained, mafic, equigranular, strongly magnetic
NR13-127	NR13-127A	489916	5181525	1375	3019460	Granite Gneiss	-	1% disseminated, cubic Py	Coarse-grained granite gneiss with approximately equal amounts quartz+kspar and amphibole, sample has the side of an epidote vein exposed
NR13-128	NR13-128A	489952	5181465	1350	3019460	SUBX	OLDI	3% disseminated Po, 1% blebby CP	85-90% dark green-grey matrix with 10-15% GDGN clasts (<1cm-2cm). Disseminated Po and Cp blebs present in matrix

Outcrop Station	Sample Number	Easting	Northing	Elevation	Claim Block	Major Rock Type	Minor Rock Type	Mineralization	Description
NR13-129	NR13-129B	489866	5181407	1328	3019460	SUBX	-	Trace?	80-85% dark grey aphanitic matrix with 15-20% GDGN and GRGN clasts (<1cm-4cm). Epidote replacing quartz in veins with extensional growth pattern
NR13-129	NR13-129A	489866	5181407	1328	3019460	SUBX	Gabbro	1-2% disseminated Po in gabbro	SUBX piece: 80% aphanitic matrix with 20% GDGN clasts (<1cm-2cm). Gabbro piece: Fine-grained, dark grey-black, uniform, equigranular with plagioclase porphyroblasts (5%) - Po mineralization disseminated throughout
NR13-144	NR13-144A	489125	5181222	1427	3019460	Granodiorite Gneiss	-	None visible	Very coarse-grained, kspars rich granite with mm - cm-sized crystals (quartz, plagioclase and amphiboles). Strong apple-green epidote veining - one piece of sample has the side of a vein exposed
NR13-167	NR13-167A	487828	5179424	1319	3019456	SUBX	-	0.25% disseminated Po	80-85% grey (greenish tinge?) aphanitic matrix with 15-20% GDGN and GRGN clasts (<1cm-2cm). Po mineralization is disseminated within matrix
NR13-171	NR13-171A	487656	5179637	1371	3019456	Granite Gneiss	-	Trace?	Medium-grained, kspars-rich banded granite gneiss with surface rusting/staining (brown-red-purple)
NR13-187	NR13-187A	487711	5182457	1434	3019458	Granite	-	1% disseminated, fine-grained cubic Py	Coarse-grained, kspars-rich pink granite with small, 1cm-wide epidote veins cross-cutting fabric. Coarse-grained, greenish amphiboles throughout

Outcrop Station	Sample Number	Easting	Northing	Elevation	Claim Block	Major Rock Type	Minor Rock Type	Mineralization	Description
NR13-192	NR13-192A	488122	5182885	1345	3019458	SUBX	-	0.25% disseminated Po, 0.25% blebby Cp	80-85% dark grey aphanitic matrix with 15-20% GRGN clasts (<1cm-2cm), Po mineralization is disseminated in matrix, Cp is very fine-grained and concentrated on the margins of GRGN clasts
NR13-192	NR13-192B	488122	5182885	1345	3019458	SUBX	-	0.25% disseminated Po, 0.25% blebby Cp	80-85% dark grey aphanitic matrix with 15-20% GRGN clasts (<1cm-4cm), Po mineralization is disseminated in matrix, Cp is very fine-grained and concentrated on the margins of GRGN clasts
NR13-193	NR13-193A	487836	5182823	1352		SUBX	GRGN		
NR13-195	NR13-195B	488046	5181953	1355	3019458	SUBX	-	0.5-1% disseminated to blebby Po and Py	80-85% dark grey-black microcrystalline matrix with 15-20% GDGN clasts (<1-2cm), Po mineralization is disseminated to blebby within matrix, 1cm subhedral pyrite nodule in sample with oxidation halo
NR13-195	NR13-195A	488046	5181953	1355	3019458	SUBX	GRGN	0.25% Py	Very fine-grained, pyritized matrix (0.25% pyrite), with 5-10% <1cm clasts partially melted GRGN
NR13-202	NR13-202A	488849	5182310	1424	3019458	SUBX	-	0.25% disseminated Po	85% dark grey aphanitic matrix with 15% GRGN clasts (<1cm), 0.25% Po present as disseminations within matrix and around margins of clasts

APPENDIX C: ASSAY RESULTS AND CERTIFICATES

		<p>Certificate of Analysis Work Order : SU131923 [Report File No.: 000002745]</p>
<p>To: Chantal Jollette KGHM International Ltd. 1300 Kelly Lake Rd. SUDBURY ONTARIO P3E 5P4</p>	<p>Date: Nov 26, 2013</p>	
<p>P.O. No. : 47150EX.7305.40500/NR-2013-01 Project No. : NORTH-RANG No. Of Samples : 20 Date Submitted : Oct 30, 2013 Report Comprises : Pages 1 to 2 (Inclusive of Cover Sheet)</p>		
<p>Distribution of unused material: Discard samples: Comments: Preparation of samples was performed at the SGS Sudbury site</p>		
<p>Certified By :  Chris Bates Operations Manager</p>		
<p><i>SGS Minerals Services (Toronto) is accredited by Standards Council of Canada (SCC) and conforms to the requirements of ISO/IEC 17025 for specific tests as indicated on the scope of accreditation to be found at http://www.scc.ca/en/programs/lab/mineral.shtml</i></p>		
<p>Report Footer:</p>	<p>L.N.R. = Listed not received n.a. = Not applicable *INF = Composition of this sample makes detection impossible by this method M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion Methods marked with an asterisk (e.g. *NAA08V) were subcontracted Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods</p>	<p>I.S. = Insufficient Sample -- = No result</p>
<p>This document is issued by the Company under its General Conditions of Service accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.</p>		
<p>WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was (were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativity of the goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement purposes. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.</p>		
<p>SGS Canada Inc. Mineral Services 185 Concession Street Lakefield ON t+1 (705) 652-2000 f+1 (705) 652-6365 www.ca.sgs.com</p> <p style="text-align: right; font-size: small;">Member of the SGS Group (Société Générale de Surveillance)</p>		



Final : SU131923 Order: 47150EX.7305.40500/NR-2013-01

Report File No.: 0000002745

Element	WtKg	Au@	Pt@	Pd@	Cu	Ni
Method	WGH79	GO_FAI303	GO_FAI303	GO_FAI303	ICP90A	ICP90A
Det.Lim.	0.001	0.02	0.02	0.02	10	10
Units	kg	g/t	g/t	g/t	ppm	ppm
K523501	0.094	<0.02	<0.02	<0.02	50	60
K523502	0.127	<0.02	<0.02	<0.02	100	70
K523503	0.174	<0.02	<0.02	<0.02	20	100
K523504	0.471	<0.02	<0.02	<0.02	80	50
K523505	0.191	<0.02	<0.02	<0.02	70	100
K523506	3.161	<0.02	<0.02	<0.02	50	100
K523507	1.525	<0.02	0.02	0.02	200	80
K523508	0.421	<0.02	<0.02	<0.02	140	70
K523509	0.454	<0.02	<0.02	<0.02	280	50
K523510	0.475	<0.02	<0.02	<0.02	180	50
K523511	0.570	<0.02	0.03	<0.02	30	70
K523512	0.786	<0.02	<0.02	<0.02	20	40
K523513	1.242	<0.02	<0.02	<0.02	30	30
K523514	1.015	<0.02	<0.02	<0.02	40	40
K523515	2.890	<0.02	<0.02	0.03	50	40
K523516	0.683	<0.02	<0.02	<0.02	40	40
K523517	0.366	<0.02	<0.02	<0.02	40	40
K523518	0.591	<0.02	<0.02	<0.02	10	40
K523519	0.070	0.58	1.91	2.59	12100	2300
K523520	0.610	<0.02	<0.02	<0.02	30	40
*Rep K523507		<0.02	0.02	0.02		
*Rep K523509					280	40

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APPENDIX D: MAPS

Maps Include:

Map 1: 2013 Outcrop/Sample Stations and Surface Geology (1:10,000)