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ASSESSMENT REPORT

describing

GEOLOGICAL MAPPING, PROSPECTING, GEOCHEMICAL SAMPLING, HAND TRENCHING, INDUCED POLARIZATION SURVEYS, PETROGRAPHIC STUDIES AND ROAD CONSTRUCTION

at the

HOPPER PROPERTY

Hopper 1-20	YC41091-YC41110
21-162	YC47017-YC47158
163-168	YC65915-YC65920
170	YC47159
171-266	YD123011-YD123106
267-342	YF28607-YD28682
Gal 1-8	YC65907-YC65914
Guy 1-16	YC19466-YC19481

NTS 115H/02 & 115H/07
Latitude 61°16′N; Longitude 136°52′W

located in the

Whitehorse Mining District
Yukon Territory

Field work performed from June 10 to July 13 and August 2 to 8, 2014

prepared by

Archer, Cathro & Associates (1981) Limited

for

STRATEGIC METALS LTD.

by

H. Burrell, P.Geo.

May 2015

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INTRODUCTION

The Hopper property covers numerous copper-gold-silver enriched, skarn- and porphyry-style targets. The property is located in southwestern Yukon and is owned 100% by Strategic Metals Ltd.

This report describes geological mapping, prospecting, hand trenching, geochemical sampling, induced polarization surveys, petrographic studies and road construction, which were conducted between June 10 and July 13 and August 2 and 8, 2014. Archer, Cathro & Associates (1981) Limited managed the program on behalf of Strategic Metals and performed the geological mapping, prospecting, hand trenching and geochemical sampling components. SJ Geophysics Ltd. of Delta, BC conducted the induced polarization survey, while Vancouver Petrographics Ltd. of Langley, BC performed the petrographic study and Castle Rock Enterprises of Whitehorse, Yukon completed the road construction. The author participated in and supervised the program and interpreted the results of it. Her Statement of Qualifications is presented in Appendix I and a Statement of Expenditures is in Appendix II.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Hopper property is located in southwestern Yukon at latitude 61º16' north and longitude 136º52' west on NTS map sheets 115H/02 and 115H/07 (Figure 1). It comprises 365 contiguous quartz claims that cover an area of about 7400 ha (74 km^2). All of the claims are registered with the Whitehorse Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic Metals. Specifics concerning claim registration are tabulated below, while the locations of individual claims are shown on Figure 2.

Claim Name	Grant Number	Expiry Date*
Hopper 1-20	YC41091-YC41110	February 15, 2028
21-162	YC47017-YC47158	February 15, 2026
163-168	YC65915-YC65920	February 15, 2028
170	YC47159	February 15, 2026
171-266	YD123011-YD123106	February 15, 2026
267-342	YF28607-YD28682	February 15, 2026
Gal 1-8	YC65907-YC65914	February 15, 2028
Guy 1-16	YC19466-YC19481	February 15, 2028

* Expiry dates include 2014 work that has been filed for assessment credit, but not yet accepted.

The property lies along the Aishihik Lake Road, 52 km north of the Otter Falls cut-off at km 1602 on the Alaska Highway. A system of bush roads and bulldozer trails extends from the Aishihik Lake Road onto the property (Figure 2). The Aishihik Lake Road has a gravel surface and is maintained from May to September to km 41 (the Otter Falls hydrogeneration dam site). Whitehorse lies 120 km southeast of the Hopper property and is the nearest, major supply centre. The community of Haines Junction lies approximately 35 km west of the Otter Falls cut-off.

The Hopper property is situated within the Champagne and Aishihik First Nations (CAFN) traditional territory. Neither the property nor access routes overlie first nation settlement land,

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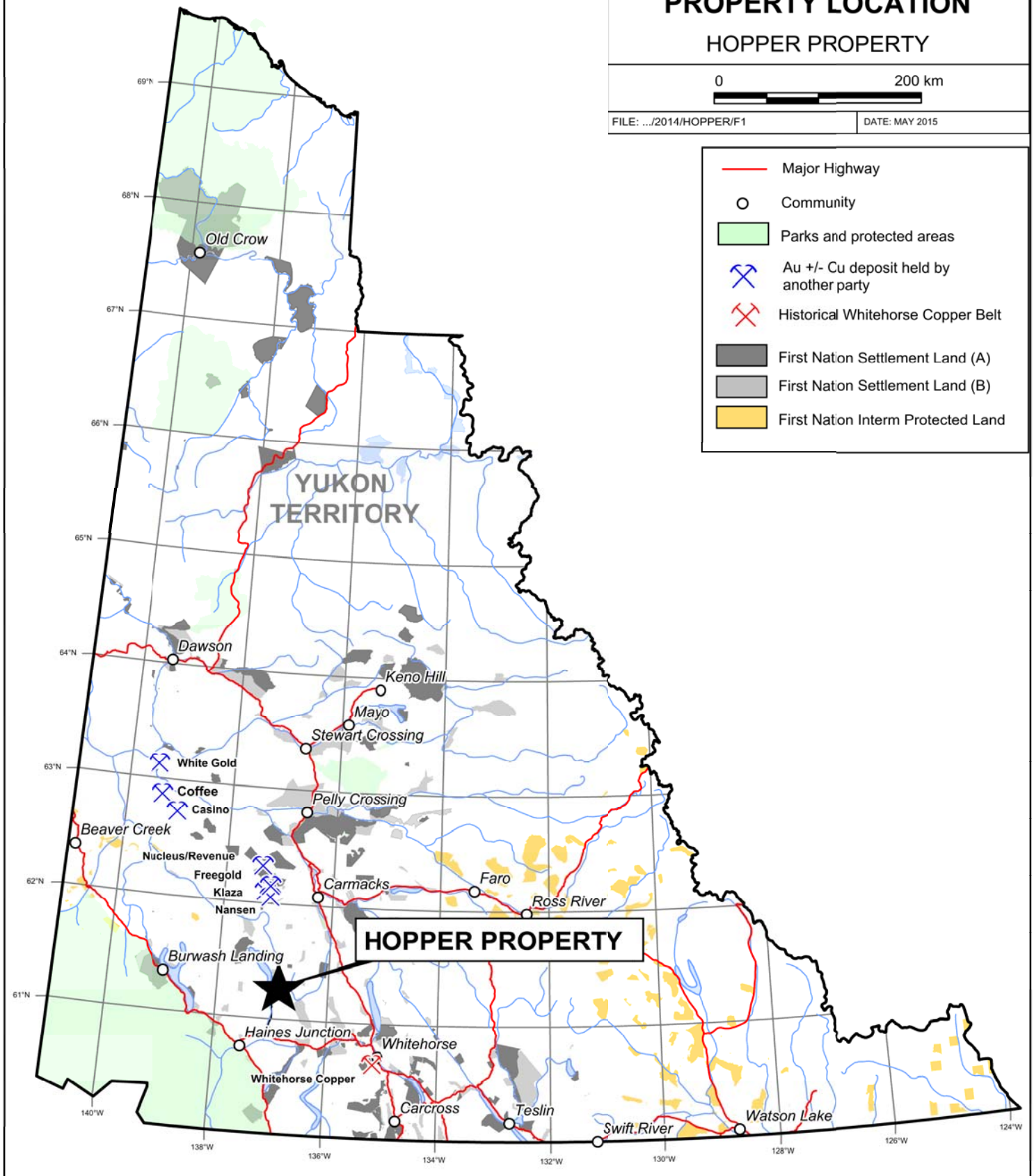
FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION

HOPPER PROPERTY

0 200 km

FILE: .../2014/HOPPER/F1 | DATE: MAY 2015



T.N.
1°32'
21° 14' E
Grid north
Magnetic north
Annual change decreasing 22'

396000 mE
398000 mE
400000 mE
404000 mE
406000 mE
6798000 mN
6796000 mN
6794000 mN
6792000 mN

PROPERTY BOUNDARY

Champagne and Aishihik First Nations Land
Claim acquired in 2011
Claim acquired in 2010
Claim acquired in 2007
Claim acquired in 2006
Hopper Main Road
Trail

HOPKINS LAKE
AISHIHIK LAKE
LONG LAKE
FRANKLIN CREEK
AISHIHIK LAKE ROAD

4600
4400
4200
4000

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FIGURE 2
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
CLAIM LOCATIONS
HOPPER PROPERTY

0 1 2 km
UTM Zone 8, NAD 83, 115H/02, 07, Contour Interval: 100 feet

FILE:2014/Hopper.../Hopper_F_2_Claim_Locations.wor | DATE: MAY 2015

but two blocks of Category "A" land and three small parcels of Category "B" land lie directly west of the property and road.

HISTORY AND PREVIOUS WORK

From 1907 to 1967, intermittent, poorly documented, cursory exploration was performed within the area now covered by the Hopper property. Since then, several better documented exploration programs were carried out over various parts of the current property by different operators (Figure 3). Table I summarizes work performed and results obtained by exploration programs conducted since 1967.

Table I – Exploration History of the Hopper Property

Year of Work (Report)	Owner/ Operator	Claims	Work Performed	Results
1968 (019089)	Mitsubishi Metal Corporation	AD	Geophysical survey, geological mapping, soil sampling, composite chip sampling	Identified strong Cu-in-soil values and 0.52% Cu over 45.72 m from a composite chip sample.
1970 (060993)	Mitsubishi Metal Corporation	ML	IP survey	Identified a large magnetic anomaly and a widespread area of polarized material likely due to pyrite, chalcopyrite and magnetite.
1976 (090147)	Mitsubishi Metal Corporation	ML	Mapping and prospecting	Rock sample with 0.124% U_3O_8. Follow up work returned <0.001% U_3O_8.
1977 (091325 and 092027)	Whitehorse Copper Mines Ltd.	Hop and Acme	Diamond drilling (1089.1 m in 11 holes)	Significant Cu, Au and Ag results from drilling, including 1.94% Cu, 0.87 g/t Au, 14.6 g/t Ag over 18.6 m.
1978 (092038)	Whitehorse Copper Mines Ltd.	Hop and Acme	Ground magnetic survey, test IP, geological mapping and diamond drilling (697.7 m in 4 holes)	Best drill intersection: 2.42% Cu, 3.051 g/t Au, 16.11 g/t Ag over 0.21 m.
1980 (work reported in 062147)	New Ridge Resources Ltd.	Hop and Acme	EM-16 and magnetometer surveys, percussion drilling (2490.2 m in 46 holes)	Percussion holes were analyzed for Cu only and not all holes were analyzed. Best intervals: 1.52% Cu over 18.3 m.
1981 (062147)	New Ridge Resources Ltd.	Hop and Acme	Review of historical work and recommendation for future work	Recommended two vertical drill holes to test the mineralized horizon.
1989 (092776)	Casau Exploration Limited	Hop and Acme	Geological mapping, magnetometer survey, bulldozer trenching and	Best intersections: 1.98% Cu, 0.67 g/t Au, 14.4 g/t Ag over 7.8 m. Rock samples from

			diamond drilling (376.12 m in 5 holes)	trenches returned up to 0.32% Cu and 5.49 g/t Au.
2002	Private Group	Guy	No reported work	n/a
2006	Strategic Metals Ltd.	Hopper	Geological mapping, prospecting and soil geochemistry	Soil sampling outlined a 2300 by 400 m area of strong Cu-in-soil geochemistry (up to 1275 ppm). Rock sample values from 0.11 to 1.53% Cu with up to 11.6 g/t Ag.
2007	Strategic Metals Ltd.	Hopper and Gal	Excavator trenching, soil geochemistry and helicopter-borne VTEM & magnetic survey	Soil sampling returned up to 2810 ppm Cu and 95 ppm Mo. Best chip sampling result was 0.4% Cu over 13 m. Geophysical surveys identified strong mag signature over pluton and four conductors (best over skarn zone within Guy claims).
2010	Strategic Metals Ltd.	Hopper and Gal	Soil sampling	Soil sampling yielded subdued response in vicinity of drill holes on Guy claims; locally elevated Au, Cu and Mo values elsewhere on those claims.
2011	Bonaparte Resources Inc. (Strategic Metals Ltd.)	Hopper, Guy and Gal	Geochemical sampling, prospecting, geological mapping, RC drilling, diamond drilling and geophysical surveying	Geochemical sampling returned up to 2730 ppm Cu, 244 ppb Au and 83 ppm Mo. RC and diamond drilling identified numerous zones of porphyry- and skarn-type mineralization. The best RC drilling porphyry result was 0.7% Cu, 0.195 g/t Au, 4.10 g/t Ag over 10.66 m. Diamond drilling at the Hopkins South Zone returned 1.62% Cu, 0.54 g/t Au and 9.30 g/t Ag over 8.50 m.
2012	Strategic Metals Ltd.	Hopper, Guy and Gal	Geophysical survey interpretation	Both 2007 and 2011 geophysical data sets were used for interpretation and roughly outlined the Hopper Pluton (3000 by 6000 m), several small magnetic highs (satellite plutons?) and numerous northwesterly-trending moderate magnetic

				highs. North-northwesterly-trending electromagnetic (EM) conductors lie along the periphery of the Hopper Pluton and to the south of it and are interpreted as possible magnetite-rich skarn horizons.
2013	Strategic Metals Ltd.	Hopper, Guy and Gal	Air photos, access and heritage studies, geochemical sampling, prospecting, geological mapping and core re-logging	Chip sampling across copper-rich skarn exposures returned up to 0.45% Cu, 0.326 g/t Au, 2.17 g/t Ag and 2 ppm Mo over 10.4 m, while gold-rich skarn intervals included 0.18% Cu, 6.83 g/t Au, 2.83 g/t Ag and 12 ppm Mo over 3m.

The exploration programs and highlight results are summarized in the following paragraphs, while more detailed descriptions of results are provided in the appropriate sections below.

In 1968, Mitsubishi Metal Corporation staked the AD claims to cover a copper showing (Hopkins North Zone) that was identified in the early 1900s (Kikuchi, 1968). The work program comprised geological mapping, rock and soil geochemical sampling and airborne geophysical surveys. A number of composite chip samples were taken from bedrock and/or subcrop across widths of 30.48 to 60.69 m (Figure 3). Values from these chip samples ranged from 0.18 to 0.52% copper. Soil sampling returned copper values up to 2250 ppm. Airborne EM and magnetometer surveys identified a few conductors and areas of strong magnetic response that reportedly coincide with the anomalous copper-in-soil values. No detailed explanation of the geophysical features was reported. An Induced Polarization (IP) survey and bulldozer trenching were recommended as follow-up work, but the claims were allowed to lapse before this work was done.

In 1970, Mitsubishi restaked part of the AD claims as the ML property. Although the assessment report for this work only reports an IP survey, a small bulldozer trenching program is thought to have been attempted in the vicinity of the 1968 work (Figure 3). Results from the IP survey show a widespread area of polarized material likely due to pyrite, chalcopyrite and magnetite (Norgaard, 1970). The bulldozer trenches did not reach bedrock and there is no record of samples taken.

In 1976, Mitsubishi performed mapping and prospecting on the ML property. The focus of this work was intrusive-hosted uranium. A specimen sample reportedly assayed 0.124% U_3O_8, but follow up work returned values less than 0.001% U_3O_8. The ML claims were allowed to lapse (Shimizu and Kashiwagi, 1976).

In 1977, two independent prospectors staked the Acme claims and immediately optioned them to Whitehorse Copper Mines Ltd., which in turn staked the Hop claims to surround the Acme claims. A total of 1089.1 m of diamond drilling was performed in 11 holes to test a pyrrhotite and chalcopyrite rich calc-silicate skarn horizon (Hopkins South Zone). Drilling successfully intersected the skarn horizon at depth, with one hole averaging 1.94% copper, 0.87 g/t gold and 14.6 g/t silver over 18.6 m between 23.5 and 42.1 m (Tenney, 1977).

In 1978, Whitehorse Copper returned to the property to perform geological mapping, follow up diamond drilling (697.7 m in four holes) and ground magnetic and IP surveys at the Hopkins South Zone. The diamond drilling program was designed to determine whether a large tonnage copper target could extend from the area of mineralization detected in 1977. The best drill intersection was 0.36% copper over 1.3 m. The magnetic survey confirmed that areas underlain by intrusions have a higher magnetic background than those underlain by schist. Strong magnetic highs were identified in the vicinity of magnetite-rich skarns. The IP survey returned low chargeability readings over the main intrusive body, but four or five times higher values over the schist country rock. Whitehorse Copper thought that the high chargeability background over the schist likely prevented detection of sulphide mineralization at depth (Ashton, 1981).

In 1980, New Ridge Resources Ltd. performed percussion drilling (2490.2 m in 46 holes) and EM-16 and magnetic geophysical surveys within Hopkins South Zone (Ashton, 1981). The most significant interval returned 1.52% copper over 18.3 m between 21.3 and 39.6 m (only analyzed for copper).

In 1989, Casau Exploration Limited performed geological mapping, magnetic surveys, bulldozer trenching and 376.12 m of diamond drilling in five holes within Hopkins South Zone (Stephen and Feulgen, 1989). The best intersection yielded 1.98% copper, 0.67 g/t gold and 14.4 g/t silver over 7.8 m between 23.1 and 30.9 m.

In 2002, a private group staked the Guy claims to cover the drilled skarn horizon in the Hopkins South Zone. No work was reported.

In 2006, Strategic Metals staked the Hopper claims north and east of the Guy claims and conducted geological mapping, prospecting and soil sampling in the vicinity of Hopkins North Zone. Eight specimens of weakly magnetic granodiorite and diorite yielded between 0.11% and 1.53% copper with an average of 0.65%. Accompanying silver values ranged up to 11.6 g/t. Soil sampling identified numerous anomalies as discussed in the Soil Geochemistry section (Wengzynowski and Smith, 2007). Strategic Metals expanded the claim block in June 2006.

In 2007, Strategic Metals once again expanded the claim block, this time adding the Gal and four more Hopper claims to the south of the Guy claims (Figure 3). Work performed in 2007 included chip and channel sampling, excavator trenching, soil geochemical sampling and helicopter-borne versatile time domain electromagnetic (VTEM) and magnetic surveys (Jessen, 2008). Chip and sawn channel samples collected from outcrops within Hopkins North Zone returned variable results, the best of which was 0.40% copper over 13 m. Specimen sampling within the excavator trenches returned values up to 2.25% copper, but most samples yielded less than 1%. The most significant trench chip sample returned only 0.11% copper over 10 m;

however, most of the trenching did not reach bedrock because of deep frozen overburden. Soil sampling better defined and expanded the known anomalies. Results of the VTEM and magnetic surveys are summarized in the Geophysical Surveys section below. In addition to the work performed by Strategic Metals, a M.Sc. Candidate from the University of Waterloo performed whole rock and sulphur isotope analyses on intrusive rocks collected from the main intrusive body, which has been informally named the Hopper Pluton. Kamber, B.S. and Ulrich, T., 2009 referenced in Blumenthal, 2010 performed U/Pb analyses, which returned Late Cretaceous ages between 76.0 ±1.1 and 83.7±1.9 Ma.

In 2008, Monster Mining Corp. acquired the Guy claims.

In 2010, Strategic Metals entered into a joint venture agreement with Monster Mining and added more claims to the south of the Hopper property. That year, Strategic Metals performed grid soil sampling on behalf of the joint venture in the vicinity of skarn mineralization outlined by percussion and diamond drilling within Hopkins South Zone (Smith, 2011). Results from this work were relatively subdued with values ranging from 1 to 109 ppb gold, 10 to 913 ppm copper and 1 to 27 ppm molybdenum. Analyses for other elements yielded background to moderately anomalous values.

In 2011, Bonaparte Resources Inc. optioned the Hopper property from the joint venture and performed an exploration program comprising reverse circulation (RC) drilling, diamond drilling, additional VTEM and magnetic surveys and soil sampling (Eaton, 2012). A total of 1730 m of RC drilling were done in 58 holes and 1309 m of diamond drilling were completed in six holes. Results from this work are described in the appropriate sections below.

In early 2012, Bonaparte terminated its option on the property.

In December 2012, Strategic Metals purchased Monster Mining's interests in the joint venture and commissioned Condor Consulting to perform detailed processing, interpretation and analysis of the 2007 and 2011 geophysical data set.

In spring 2013, Condor Consulting completed the interpretation of total magnetic intensity and EM data. The TMI data roughly outlined the Hopper Pluton as a 3000 by 6000 m, west-northwesterly elongated, very strong magnetic high. The Hopkins South Zone appears to have a strong magnetic signature that blends into the main Hopper Pluton magnetic anomaly. A number of linear northwesterly-trending moderate magnetic highs lie south of the pluton. The Hopper Pluton features low EM response. The drilled area at the Hopkins South Zone is underlain by a strong EM conductor, while two irregularly shaped EM conductors of similar intensities lie two and four kilometres east of the Hopkins South Zone, respectively (Burrell, 2013).

In summer 2013, Strategic Metals performed air photo surveys, access and heritage studies, geochemical sampling, prospecting, geological mapping and core re-logging. Two metre contour topographic maps were also created for the property. Details of the studies can be found in Mitchell (2013), while specifics relating to property geology and geochemical results are discussed in the appropriate section below.

In summer 2014, a sample of the Hopper Pluton was taken for age dating by the Yukon Geological Survey (YGS). U/Pb zircon geochronology dating was done at Boise State University and returned a weighted mean age of 78.51±0.03 Ma (Israel, pers comm, 2015).

GEOMORPHOLOGY

The Hopper property is located within the Kluane Plateau physiographic region. The claim block lies between Hopkins Lake to the west and Long Lake to the east. Aishihik Lake is located four kilometres northwest of the property. The property is drained by creeks that flow into Hopkins and Aishihik lakes, which connect to the Pacific Ocean via the Aishihik, Dezadeash and Alsek rivers, and by creeks that flow into Long Lake, which ultimately connects to the Pacific Ocean via the Nordenskiold and Yukon rivers.

The Kluane Plateau was glaciated during the Late Pleistocene. Glacial movement arced from south to north-northwest in the Aishihik Lake area (Duk-Rodkin, 1999). The property can be sub-divided, from west to east, into four distinct physiographic regions – lowlands, escarpment, upland plateau and mountain peaks (Figure 3).

Most of the work has been done in the northwestern part of the property, which includes lowlands, escarpment and upland plateau. These regions are defined by distinct geomorphological characteristics. Lowlands are blanketed by numerous glacial features such as eskers, kames, kettles, melt-water channels and assorted till deposits. Vegetation in this area includes dense spruce, willow, poplar and birch forest, while outcrop is limited to steep sides of melt-water channels. The escarpment comprises multiple stacked cliff bands and is vegetated with thick willow and buckbrush surrounding scattered spruce and birch. The upland plateau is mostly blanketed by glacial till deposits of varying thicknesses. Glacial till deposits typically range from fine silt to large rounded boulders, but a few truck-sized glacial erratics have been observed. Outcrop on the plateau is mostly limited to glacially scoured knolls. Tree line is at about 1500 m.

Although the Hopper area is arid and many creeks only flow during seasonal runoff, small lakes and the larger creeks provide sufficient water for camp and drilling purposes throughout summer and fall.

REGIONAL GEOLOGY

The Hopper property is located within Yukon-Tanana Terrane (YTT), which represents a continental arc that developed along the ancient Pacific margin of North America from Late Devonian to Permian (Figure 4). The segment of YTT containing the property is bounded by the Tintina Fault, 200 km to the northeast, and the Denali-Shakwak Fault, 50 km to the southwest. Both faults are steeply dipping transcurrent structures that have seen hundreds of kilometres of dextral strike-slip offset.

In 1997, the area around the Hopper property (NTS map sheet 115H/07) was mapped at 1:50,000 scale by Johnston and Timmerman of the YGS. Gordey and Makepeace (2003) later completed a Yukon-wide geological compilation, which updated the lithological unit names in

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FIGURE 4

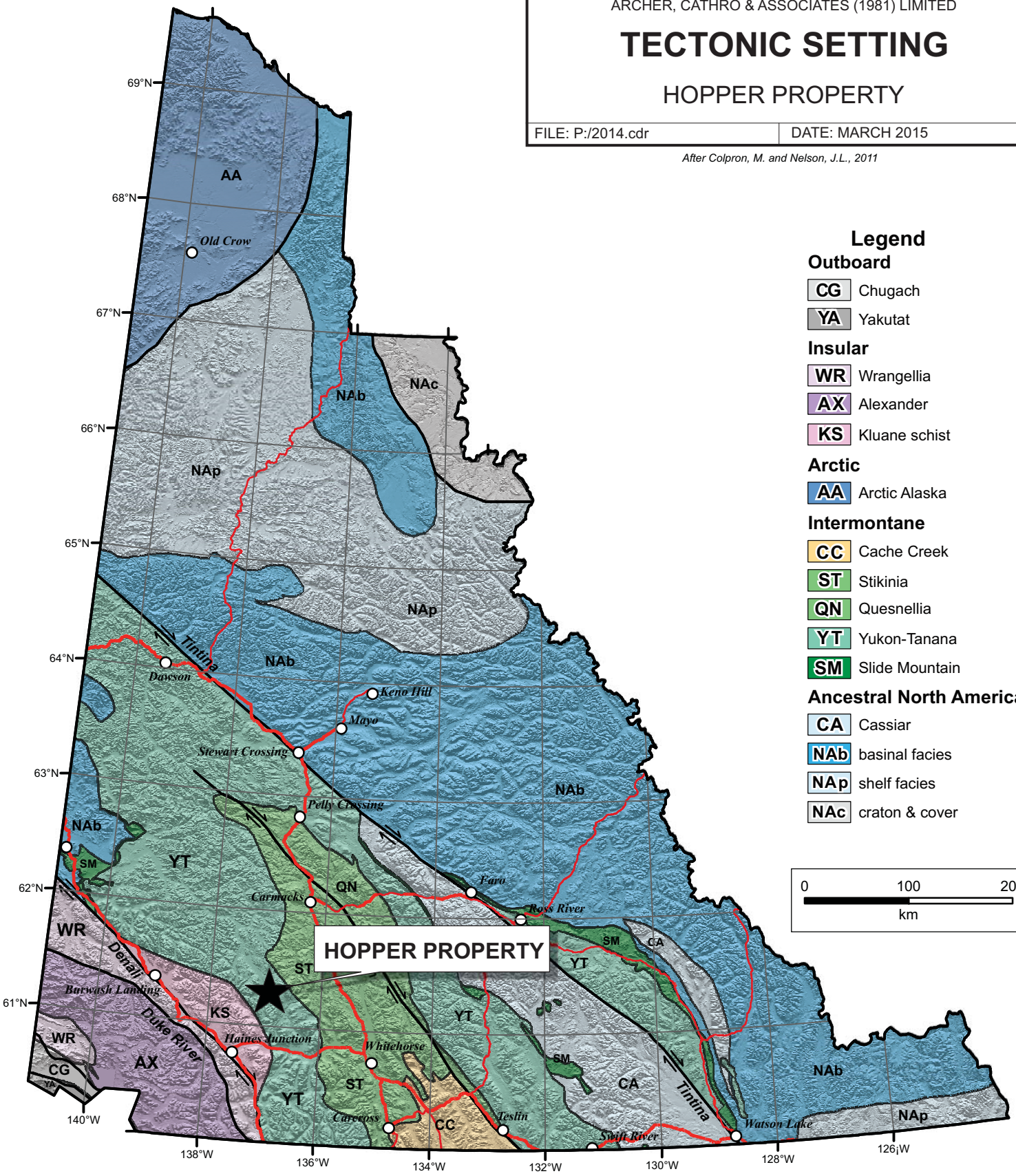
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TECTONIC SETTING

HOPPER PROPERTY

FILE: P:/2014.cdr | DATE: MARCH 2015

After Colpron, M. and Nelson, J.L., 2011



Legend

Outboard

- CG Chugach
- YA Yakutat

Insular

- WR Wrangellia
- AX Alexander
- KS Kluane schist

Arctic

- AA Arctic Alaska

Intermontane

- CC Cache Creek
- ST Stikinia
- QN Quesnellia
- YT Yukon-Tanana
- SM Slide Mountain

Ancestral North America

- CA Cassiar
- NAb basinal facies
- NAp shelf facies
- NAc craton & cover

the area. In 2011, Israel et al. mapped parts of map sheet 115H at 1:150,000 and updated the lithological units for that area. Figure 5 illustrates geology in the vicinity of the property as mapped by Johnson and Timmerman and compiled by Gordey and Makepeace. Rock units assigned during 1997 mapping have been re-assigned to equivalent map units based on the mapping by Israel et al. Table II describes the regional map units.

Table II – Lithological Units (*after Israel et al., 2011)*

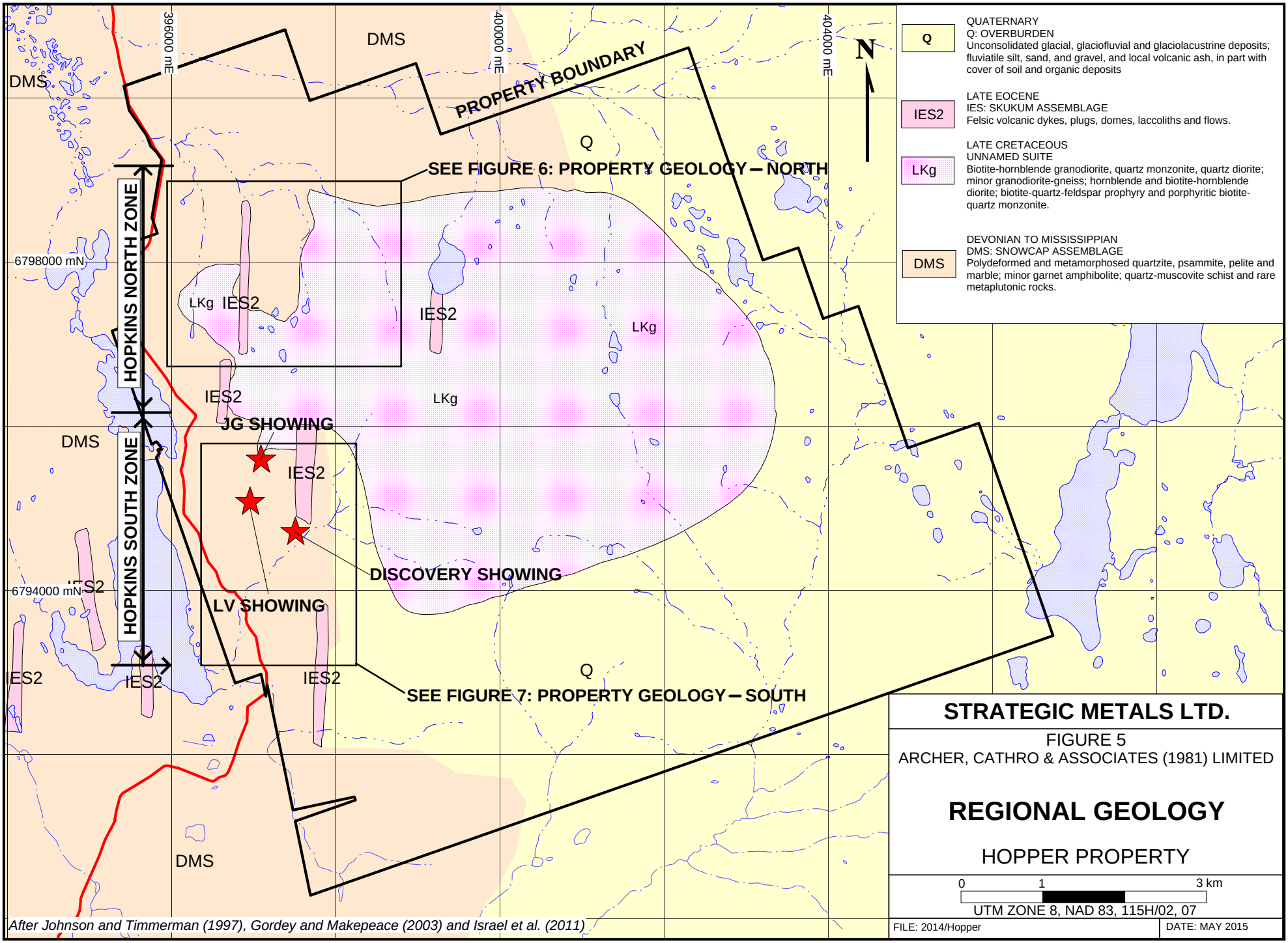
Map Suite	Age	Map Unit	Description
Quaternary	Quaternary	Q	Unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluviatile silt, sand and gravel; and local volcanic ash, in part with cover of soil and organic deposits.
Skukum Assemblage	Eocene	IES2	North-trending, felsic volcanic dykes, plugs, domes, laccoliths and flows.
Unnamed Suite	Late Cretaceous	LKg	Biotite-hornblende granodiorite, quartz monzonite, quartz diorite; minor granodiorite-gneiss; hornblende and biotite-hornblende diorite; biotite-quartz-feldspar porphyry and porphyritic biotite-quartz monzonite.
Snowcap Assemblage	Devonian to Mississippian	DMS	Polydeformed and metamorphosed quartzite, psammite, pelite and marble; minor garnet amphibolite; quartz-muscovite schist and rare metaplutonic rocks.

The oldest rocks in the area comprise primarily micaceous quartzite, schist, gneiss and marble of the Devonian to Mississippian Snowcap Assemblage. The Snowcap Assemblage is intruded by the Late Cretaceous Hopper Pluton, which was previously assigned to the Early Tertiary Ruby Range Suite. Plutons of similar age are not volumetrically abundant, but they are economically important because they are directly associated with porphyry and epithermal vein mineralization at a number of properties in the Dawson Range, including Casino, Nucleus/Revenue and Klaza (Sanchez *et al.,* 2014). A complex system of feldspar porphyry dykes and sills of the Eocene Skukum Assemblage intrude all lithological units.

PROPERTY GEOLOGY

In 1989 and 2011, 1:1000 and 1:5000 scale mapping was completed in the vicinity of the Hopkins South Zone. In 1968, 1976, 2006 and 2011, property-scale mapping was performed in a broad area encompassing the Hopkins North Zone. In 2013, mapping was completed at 1:2500 scale over a 4500 m by 2500 m area that includes the Hopkins North and South zones and a third area located one kilometre further to the south. In 2014, additional mapping at 1:2500 scale was completed within the Hopkins North and South zones (Figures 6 and 7).

The following descriptions are based primarily on 1989, 2013 and 2014 observations. Regional lithologies generally correlate to property units, which are described from oldest to youngest below.



After Johnson and Timmerman (1997), Gordey and Makepeace (2003) and Israel et al. (2011)

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FIGURE 5
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

REGIONAL GEOLOGY

HOPPER PROPERTY

0 1 3 km

UTM ZONE 8, NAD 83, 115H/02, 07

FILE: 2014/Hopper | DATE: MAY 2015

Devonian to Mississippian – Snowcap Assemblage (DMS):

DM1: Interbedded micaceous quartzite, biotite-quartz schist to gneiss and biotite±muscovite-quartz-feldspar schist to gneiss.

- **DM1q:** Grey to black and brown micaceous quartzite consisting of biotite±muscovite and quartz.
- **DM1s:** Dark grey to black biotite-quartz schist.
- **DM1g:** Grey, greyish brown weathering biotite-quartz gneiss comprising medium to coarse grained mica between two to four millimetre thick bands of quartz and minor feldspar.
- **DM1f:** Quartz-feldspar schist to gneiss.

DMmb: Biotite-hornblende-quartz metabasite schist to gneiss.

DMm: White to light grey, recrystallized and thin bedded marble. Marble horizons range from 0.5 to 30 m thick and are often partially altered to calc-silicate, grading to skarn.

DMcs: White to green, very fine grained, thin bedded to mottled calc-silicate, which occurs in close association with marble, skarn and quartz-mica schist to gneiss. Narrow green and purple bands suggest thin beds of clastic sediment were incorporated during deposition.

DMs: Skarns are dominantly composed of pyroxene, garnet, epidote, chlorite, actinolite, tremolite, wollastonite and serpentine and may host semi-massive to massive magnetite. Sulphide minerals often partially replaces magnetite. Skarn horizons are developed in the metasedimentary units near both the northern and southern contacts of the pluton.

DMh: Grey, fine grained, rusty weathering, siliceous rock with fine disseminated pyrrhotite. Occurs in proximity to dioritic and feldspar porphyry dykes.

Late Cretaceous – Unnamed Suite:

Hopper Pluton: Locally, the Hopper Pluton exhibits four phases: 1) granodiorite; 2) gabbro; 3) monzonite; and, 4) quartz monzonite. Only a cursory attempt has been made at differentiating the four phases while field mapping, because there are relatively few bedrock exposures. Detailed descriptions of the four units are provided in the Petrographic Studies section.

Tertiary (?) – Uncertain Suite:

Td: Medium grey to dark grey, fine to medium grained diorite dykes consisting of hornblende, feldspar and biotite.

Tap: Dark grey to black, fine grained, massive, nearly vertical andesite dykes. May host small phenocrysts comprising creamy or grey to white feldspar.

Tlm: Heavy, biotite rich rock with elongate clasts of marble up to 0.5 m long – possibly lamprophyre but likely enodskarn.

Ttra: Pinkish, grey or grey green, aphanitic trachyte and latite dykes.

Eocene – Skukum Assemblage (IES2):

Tfp: Light grey to pinkish-grey, feldspar-hornblende±biotite porphyritic dykes. Dykes are generally north-trending and steeply dipping with thicknesses up to 30 m.

Tertiary – Unnamed Suite:

Tb: Dark grey to black, fine grained basalt dykes commonly containing white feldspar phenocrysts and small open vesicles near their contacts. Most of the dykes have the same north strike and steep dip as feldspar porphyry dykes (Tfp); however, these sharply cross-cut the trachyte and latite dykes (Ttra). Dykes are generally one to three metres thick.

Tcb: A series of small zones of brecciation comprising chalcedonic silicification and drusy quartz veining. Open cavities are lined with small clear to white quartz crystals, and chalcedony may be finely banded. This unit may represent zones of epithermal alteration in late stage breccias.

In the lowlands and on the upland plateau, contacts between the metasediments and the pluton are generally obscured by overburden. Where contacts are observed near the transition from lowlands to escarpment, they are complex and irregular in part because of large metasedimentary xenoliths (up to tens of metres in width) in the pluton.

Skarn and calc-silicate horizons are present up to 1000 m north and south from the Hopper Pluton and in the vicinity of dykes. The Snowcap Assemblage has been exposed over a 290 m thick vertical section on the escarpment. Bedding within this assemblage is sub-horizontal to shallowly (15^{o}) east dipping.

Calcareous horizons or their altered equivalents collectively comprise about two-thirds of the Snowcap Assemblage stratigraphic section between the southern edge of the Hopper Pluton and the Hopkins South Zone on Franklin Creek (Figure 7) as shown in Table III.

Table III – Relative Abundance and Thickness of Rock Types within the Metasedimentary Package

Rock Type	Thickness (m)	Percentage
DMcs (Calc-Silicate)	22	8
DMm (Marble)	67	23
DMs (Skarn)	98	34
DM1	103	35

A number of north-striking and steeply dipping dykes intrude the Snowcap Assemblage and Hopper Pluton. The most abundant dyke sets belonging to unit Tfp. North- to north-northeast-trending, steeply dipping brittle faults and fractures are common on the property. Locally, quartz-carbonate veins with hydrothermal textures occur adjacent to north striking Tfp dykes.

MINERALIZATION

Three types of mineralization have been observed at the Hopper property: 1) intrusive-hosted, disseminated and fracture-filling sulphides; 2) iron oxide and sulphide-bearing skarn; and 3) epigenetic veins with sulphide (Figure 8). The mineralization discovered to date is concentrated in two main zones (Hopkins North and Hopkins South), which are located in the western part of the property.

In 2014, a total of 114 rock samples were collected from the property, 83 of which were chip samples from hand trenches. Rock sample and hand trench locations are plotted on Figure 9. Hand trench details and results are provided in the Hand Trenching section below.

The 2014 rock sample sites are marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a hand-held GPS unit. Sample preparation for 2014 rock samples was carried out by ALS Minerals in Whitehorse, where the samples were dried and fine crushed to better than 70% passing -2mm before a 250 g split was pulverized to better than 85% passing 75 micron. The fine fractions were then sent to ALS Minerals in North Vancouver, where they were analyzed for gold using fire assay followed by inductively coupled plasma-atomic emission spectroscopy analysis (Au-ICP21) and for 51 other elements using an aqua regia digestion and mass spectrometry analysis (ME-MS41). Over limit values for copper were determined using Cu-OG46. Certificates of Analysis and Rock Sample Descriptions are provided in Appendix III and IV, respectively.

HOPKINS NORTH ZONE

Hopkins North Zone encompasses the northwestern part of the Hopper Pluton and metasediments to the north and west of it. It is sub-divided into three areas – a 650 by 2000 m core of porphyry-type intrusion-hosted sulphides; a 750 by 1500 m zone of mineralized skarn horizons bordering the porphyry core; and, a complex 350 by 800 m area in the western part of the pluton containing large screens and xenoliths of metasedimentary rocks (Figure 6).

Granodiorite in the western part of the Hopkins North Zone often hosts trace to moderately abundant chalcopyrite with lesser pyrite, pyrrhotite, magnetite and/or molybdenite as fine interstitial disseminations, coarser aggregates and clots, and fracture fillings. The dominant mineralized fracture set strikes 140 ^{o} to 170 ^{o} and dip steeply (near vertical) to the west and east. A secondary fracture set strikes 010^{o} to 040^{o} and dips 60^{o} to 75^{o} to the east. Intense surface oxidation and leaching seen in some porphyry systems elsewhere in Yukon is not evident at the Hopper property, likely because it has been glacially scoured.

Skarn horizons and lenses in Hopkins North Zone range up to 12 m thick and are composed of pyroxene±garnet±actinolite±epidote. Semi-massive to massive magnetite is common and is often partially replaced by sulphide minerals including chalcopyrite, pyrrhotite and lesser pyrite.

The complex contact zone at the western edge of the Hopper Pluton hosts significant chalcopyrite mineralization within both metasedimentary xenoliths and screens and the intrusion, as disseminations and fracture fillings.

Epigenetic mineralization in the form of quartz-carbonate veining occurs mostly within the pluton. These veins typically parallel the dominant north-trending fracture orientation. The quartz is clear to white to smokey and sometimes exhibits weak banding, drusy cavities and brecciation. The carbonate weathers orange-brown and consists of amorphous to white crystalline ankerite and calcite. The veins are typically one to three metres wide and commonly contain isolated coarse blebs and clots of chalcopyrite and molybdenite.

Feldspar porphyry dykes and mafic to intermediate dykes are locally mineralized where they are cut by north-striking faults and fractures. Malachite staining is common within mineralized areas.

In 1968, Mitsubishi chip sampled 25 mineralized porphyry-type bedrock exposures. The sampled outcrops returned generally encouraging results, which are much higher than values from nearby soil samples. In 2006, 2007 and 2011, Strategic Metals collected numerous specimen, chip and channel samples of variably mineralized granodiorite, skarn, dyke and quartz-carbonate vein material within the vicinity of the Mitsubishi samples. Excavator trenching was attempted, but was largely unsuccessful because bedrock could not be reached due to deep, frozen overburden. The most anomalous historical samples from Hopkins North Zone are listed in Table IV.

Table IV – Significant Historical Rock and Chip Sample Results – Hopkins North Zone

Rock Type	Year	Sample No.	Sample Type	Cu (%)	Au (g/t)	Ag (g/t)	Mo (ppm)
Granodiorite	1968	4	Chip (30.48 m)	0.10	NA	NA	30
Granodiorite	1968	7	Chip (45.72 m)	0.52	NA	NA	170
Granodiorite	1968	8	Chip (60.96 m)	0.25	NA	NA	200
Granodiorite	1968	10	Chip (60.96 m)	0.18	NA	NA	30
Granodiorite	1968	12	Chip (45.72 m)	0.24	NA	NA	160
Granodiorite	1968	13	Chip (30.48 m)	0.21	NA	NA	270
Granodiorite	2006	C103407	Specimen	1.37	0.084	11.3	99
Granodiorite	2006	C103411	Specimen	1.53	0.61	11.6	27
Skarn	2006	C103416	Chip (2 m)	0.93	0.096	15.1	155
Dyke	2006	C103404	Specimen	1.75	0.163	7.4	109
Dyke	2006	C103417	Specimen	0.92	0.373	12.2	6
Granodiorite	2007	B376020-023	Chip (13 m)	0.40	0.055	1.9	47
Granodiorite	2007	B376027	Chip (3 m)	0.22	0.010	1.6	5
Granodiorite	2007	B376056	Chip (3 m)	0.32	0.004	1.2	21

Granodiorite	2007	B376058	Chip (3 m)	0.54	0.005	1.1	32
Granodiorite	2007	B376533	Specimen	1.08	0.006	10.8	937
Granodiorite	2007	B376542	Specimen	2.25	0.19	12.7	19
Granodiorite	2007	B376094-095	Chip (10 m)	0.11	0.016	0.6	23
Veined granodiorite	2011	K270701	Specimen	0.91	0.010	3.2	57
Granodiorite	2011	K270702	Specimen	0.10	<0.005	0.9	7
Granodiorite	2011	K270703	Specimen	1.12	0.039	4.7	22
Granodiorite	2011	K270704	Specimen	0.08	1.06	0.7	<1
Gouge	2011	J981401	Chip (5 m)	0.10	0.006	0.5	6
Skarn	L865804	Chip (1 m)	0.86	0.7	12.45	1	
Skarn	L865809	Specimen	2.27	0.4	18.00	2	
Skarn	L865726	Specimen	<0.001	0.275	0.1	2	
Metabasite	L865815	Specimen	1.51	0.052	9.82	24	
Granodiorite	L865805	Specimen	2.67	0.021	18.75	25	
Granodiorite	L865806	Specimen	0.12	0.018	1.30	5	
Felsic dyke	K269149	Specimen	0.20	0.075	4.14	22	
Quartz vein	K269142	Specimen	0.27	0.006	0.52	173	
Quartz-carbonate vein	L865807	Specimen	0.18	0.018	1.51	24	

NA = Not analyzed

In 2014, a total of 22 rock samples were collected from Hopkins North Zone. These samples tested variably mineralized granodiorite, intermediate and felsic dykes, skarn, calc-silicates and quartz or quartz-carbonate veins (Figure 9). The best results are listed in Table V below.

Table V – Significant 2013 and 2014 Rock and Chip Sample Results – Hopkins North Zone

Rock Type	Sample No.	Sample Type	Cu (%)	Au (g/t)	Ag (g/t)	Mo (ppm)
Altered granodiorite	M898222	Specimen	0.998	0.01	6.75	94.2
Quartz-carbonate-ankerite vein	M898227	Specimen	0.998	0.014	3.14	30
Monzonite	M898278	Outcrop	0.211	0.028	1.27	19.3
Quartz-carbonate vein	M898284	Outcrop	0.149	0.008	2.27	0.72
Diopside skarn	M898285	Specimen	0.201	0.009	2.35	0.93
Diopside-actinolite skarn	M898286	Specimen	0.693	0.1	15.5	27.8
Actinolite-diopside skarn	M898287	Chip (2 m)	0.80	0.279	16.75	3.54
Marble and epidote	M898289	Chip (10 cm)	0.78	0.024	22.8	0.85

skarn						
Quartz vein	M898291	Specimen	2.08	0.508	16.75	966
Quartz vein	M898293	Specimen	0.303	0.002	1.23	1.65

HOPKINS SOUTH ZONE

Hopkins South Zone covers an approximately 500 m by 2000 m area, which lies south of the Hopper Pluton, and encompasses the Discovery, JG, LV and a number of other unnamed showings (Figure 7).

Skarn horizons and lenses at the Discovery Showing exposed in outcrop are 1 to 12 m thick. The skarns mostly comprise pyroxene±actinolite±garnet±epidote±chlorite and are mineralized with chalcopyrite, pyrite, pyrrhotite and semi-massive to massive magnetite. Three dimensional computer modelling suggests that the main horizon forms a continuous, gently undulating sheet that strikes 170 ^{o} and dips 12^{o} to the east. This horizon has been traced in outcrop and drill holes over a strike length of 540 m and up to 258 m down dip (Dumala, pers. comm., 2015). The zone remains open to extension along strike and down dip.

The JG Showing is believed to be the northerly extension of the Discovery Showing because it is at about the same stratagraphic position and has a similar composition, comprising magnetite-pyroxene-actinolite±serpentine-wollastonite-garnet with abundant chalcopyrite. The LV Showing lies west of the Discovery Showing about 70 m deeper in the stratigraphy. It is strongly gold-enriched and comprises pyroxene-actinolite skarn with limonite- and manganese-rich surface coatings and trace malachite.

In 1989, Casau Exploration took several specimen and chip samples from various skarn and chalcedony breccia exposures. Numerous chip samples of skarn were also collected from three bulldozer trenches, but specific lengths, grades and locations were not recorded. Many of these samples were taken from isolated exposures that lie outside the main showings and have not been re-sampled. The most anomalous historical results are listed in Table VI.

Table VI – Significant Historical Rock and Chip Sample Results – Hopkins South Zone

Rock Type	Year	Sample Type	Cu (%)	Au (g/t)	Ag (g/t)	Mo (ppm)
Skarn	1989	Specimen	1.18	0.62	NR	NA
Skarn	1989	Specimen	0.51	0.20	NR	NA
Skarn	1989	Specimen	0.74	0.14	NR	NA
Skarn	1989	Specimen	0.59	6.27	2.74	NA
Skarn	1989	Specimen	0.59	1.30	14.06	NA
Skarn	1989	Specimen	1.00	0.55	5.83	NA
Skarn	1989	Specimen	1.26	0.27	8.57	NA
Chalcedony breccia	1989	Specimen	2.07	1.03	63.08	NA
Bulldozer trench	1989	Chip Sample	0.32	0.55	NR	NA

NR = Not recorded
NA = Not analyzed

In 2014, two specimen samples of variably mineralized skarn were collected from the Hopkins South Zone (Figure 9). Chip samples collected from the 10 hand trenches excavated in this zone will be discussed in the Hand Trenching section below. The best results from 2013 and 2014 sampling are listed in Table VII.

Table VII – Significant 2013 and 2014 Rock and Chip Sample Results – Hopkins South Zone

Rock Type (year)	Sample No.	Sample Type	Cu (%)	Au (g/t)	Ag (g/t)	Mo (ppm)
Skarn (2014)	M898221	Specimen	0.45	0.039	2.5	6
Skarn (2013)	L865572	Chip (1 m)	0.14	0.847	1.13	2
Skarn (2013)	L865574	Chip (0.7 m)	0.38	0.004	2.27	25
Skarn (2013)	L865575	Chip (10.4 m)	0.45	0.326	2.17	2
Skarn (2013)	L865576					
Skarn (2013)	L865577					
Skarn (2013)	L865578					
Skarn (2013)	L865579	Chip (3.4 m)	0.51	0.52	6.79	9
Skarn (2013)	L865580					
Skarn (2013)	L865581	Chip (4.2 m)	0.33	0.30	5.87	12
Skarn (2013)	L865582					
Skarn (2013)	L865583	Chip (1.9 m)	0.42	0.306	2.56	1
Skarn (2013)	L865590	Chip (8.1 m)	0.23	0.06	2.06	278
Skarn (2013)	L865591					
Skarn (2013)	L865592					
Skarn (2013)	L865593	Chip (4.5 m)	0.32	1.31	6.47	5
Skarn (2013)	L865594					
Skarn (2013)	L865595					
Skarn (2013)	L865598	Chip (3 m)	0.18	6.83	2.83	12
Skarn (2013)	L865812	Chip (3 m)	0.96	0.7	5.51	1
Skarn (2013)	L865813	Chip (1.2 m)	0.66	0.2	5.46	7
Skarn (2013)	K269145	Specimen	0.16	0.037	1.58	3
Calc-silicate (2013)	L865596	Chip (1 m)	0.36	0.179	4.92	16
Micaceous quartzite (2013)	L865817	Specimen	0.14	0.011	0.33	466
Feldspar porphyry dyke (2013)	L865585	Chip (1.7 m)	0.13	0.031	2.5	13

Most of the samples taken in 2014 were from small, isolated skarn exposures. The upper and lower contacts of the skarn horizons are often not exposed, and the projections of the horizons are usually covered by overburden and vegetation along strike.

Most of the mineralized skarn exposures have not been tested by drilling or mechanized trenching.

SOIL GEOCHEMISTRY

In 1985, the Geological Survey of Canada performed regional stream sediment sampling across the Aishihik Lake map sheet (Hornbrook, et al., 1985). Three samples taken from creeks draining the Hopper property returned moderately anomalous copper and lead values to peaks of 51 ppm and 68 ppm respectively, which are in the 95th percentile for the survey area. Results for other elements did not exceed regional background values.

In 2014, a total of 290 grid and contour soil samples were collected in the western part of the property. Sample locations are plotted on Figure 10, while results for copper, gold, silver and molybdenum are illustrated thematically on Figures 11 to 14. All 2014 soil sample locations were recorded using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected from 20 to 50 cm deep holes using hand-held augers. They were placed into individually pre-numbered Kraft paper bags. The soil samples were sent to ALS Minerals in Whitehorse where they were dried and screened to -180 microns. The fine fractions were then sent to ALS Minerals in North Vancouver where they were dissolved in aqua regia and analyzed for 35 elements using the inductively coupled plasma-atomic emission spectroscopy technique (ME-ICP41). An additional 30 g charge was further analyzed for gold by fire assay with inductively coupled plasma-atomic emission spectroscopy finish (Au-ICP21). Certificates of Analysis are provided in Appendix III.

Soil geochemical surveys conducted on the Hopper property prior to 2013 include grid and contour sampling at varying sample spacing's. Before 2006, soil samples were only analyzed for copper, but since then they have also been analyzed for gold and a number of other elements. Historical sample results for copper, gold, silver and molybdenum are illustrated thematically along with the 2014 results on Figures 11 to 14. Anomalous thresholds and peak values for all soil samples are listed in Table VIII.

Table VIII – Geochemical Data for Soil Samples

Element	Weakly Anomalous	Moderately Anomalous	Strongly Anomalous	Very Strong	Historical Peak	2013 Peak	2014 Peak
Copper (ppm)	≥ 50 < 100	≥ 100 < 200	≥ 200 < 500	≥ 500	2810	26,100	1835
Gold (ppb)	≥ 10 < 20	≥ 20 < 50	≥ 50 < 100	≥ 100	465	184	64
Silver (ppm)	≥ 0.2 < 0.5	≥ 0.5 < 1	≥ 1 < 2	≥ 2	2.1	5.5	0.9
Molybdenum (ppm)	≥ 5 < 10	≥ 10 < 20	≥ 20 < 50	≥ 50	95	142	66

Sampling has outlined a broad area (2500 m by 3600 m) defined by copper-in-soil values ranging from 500 to 26,000 ppm, which encompasses the Hopkins North and South zones (Figure 11). Scattered to well clustered, moderately to strongly elevated gold, silver and molybdenum values are also present. The anomalous area overlies the lowlands, escarpment and upland plateau and covers part of the Hopper Pluton and adjacent metasediments.

The escarpment, where residual soil predominates, exhibits the most extensive and strongest copper, gold, silver and molybdenum geochemical signatures on the property. Distributions of moderately to strongly anomalous copper, gold, silver and molybdenum values in the lowlands and on the upland plateau are typically spotty or loosely clustered, which is in part attributed to mixing of in situ soils with glacial and glacio-fluvial material.

Areas of moderately to very strongly anomalous gold and silver values are primarily underlain by metasedimentary rocks near the southern and northern margins of the Hopper Pluton. The southerly cluster of high precious metal values is slightly offset from a band of moderately to strongly anomalous molybdenum-in-soil values, which closely follows the contact between the pluton and metasediments.

In the eastern part of Hopkins North Zone, there is a small cluster of coincident, moderately to strongly elevated gold, silver and molybdenum values, which are underlain by the Hopper Pluton.

Soil geochemistry also identified several isolated, very strong copper, gold and silver values south of Franklin Creek, which are thought to be associated with vein style mineralization. The best gold-in-soil value (1.84 g/t) on the property occurs with four other very strongly anomalous spot highs in this area.

Most of the geochemically anomalous areas, including a 550 by 900 m core of very high values centred on the JG Showing, have not been tested by drilling. Surprisingly, soil geochemical response is relatively weak within the vicinities of the Discovery Showing and most of the drill holes in the Hopkins South Zone.

DIAMOND DRILLING

HISTORICAL DIAMOND DRILLING

Between 1977 and 1989, a total of 2162.9 m of diamond drilling was completed in 20 holes near the Discovery Showing within Hopkins South Zone. The holes were designed to test magnetic anomalies and skarn mineralization at depth. Only visibly mineralized drill intervals were sampled. Approximate drill hole locations are shown on Figure 3 (re-surveying of pre-2011 holes is not possible due to lack of collar markers). Drill hole data and types of mineralization found within the holes are listed in Table IX.

Table IX – Historical Diamond Drill Hole Data and Visual Results

Hole	Year	Azimuth (º)	Dip Angle (º)	Length (m)	Comments and/or Mineralization Type
TH-1	1977	060	-65	215.5	Actinolite-tremolite-diopside-garnet skarn with chalcopyrite ± pyrite ± pyrrhotite.
TH-2	1977	060	-60	77.1	Actinolite-diopside ± magnetite ± tremolite skarn with chalcopyrite + pyrrhotite.
TH-3	1977	240	-70	62.8	Dyke, hole stopped.
TH-4	1977	060	-70	77.1	Actinolite-tremolite-magnetite skarn with chalcopyrite + pyrrhotite.
TH-5	1977	060	-80	46.3	Hole lost due to fault.
TH-6	1977	240	-80	97.5	Tremolite-magnetite ± actinolite-diopside skarn with chalcopyrite + pyrrhotite.
TH-7	1977	240	-80	107.0	Actinolite-tremolite skarn pyrite + pyrrhotite + chalcopyrite.
TH-8	1977	240	-80	96.9	Tremolite-actinolite-diopside(?) skarn with pyrrhotite + magnetite + chalcopyrite.
TH-9	1977	240	-80	88.4	Carbonate-altered dyke with minor chalcopyrite.
TH-10	1977	240	-80	32.3	Dyke, hole stopped.
TH-11	1977	240	-80	188.1	Schist with minor Cu mineralization.
TH-12	1978	-	-90	194.5	Minor Cu at schist-marble contact.
TH-13	1978	-	-90	206.3	Barren magnetite-chalcopyrite + pyrite bearing skarn.
TH-14	1978	-	-90	21.9	Dyke, hole stopped.
TH-15	1978	-	-90	274.9	Schist with minor Cu mineralization.
HA-1	1989	240	-70	105.16	Diopside and actinolite skarn with chalcopyrite ± pyrrhotite.
HA-2	1989	240	-70	72.54	Magnetite ± tremolite skarn with chalcopyrite + pyrrhotite.
HA-3	1989	240	-70	65.22	Diopside and actinolite skarn with chalcopyrite ± pyrrhotite ± malachite.
HA-4	1989	240	-60	72.24	Diopside, actinolite and magnetite skarn with chalcopyrite + pyrrhotite.
HA-5	1989	-	-90	60.96	Actinolite-diopside skarn with chalcopyrite + pyrite.

Most of the holes intersected stacked, variably mineralized skarn horizons of differing widths. The primary gangue minerals include actinolite, diopside, tremolite and rare garnet, while ore minerals comprise magnetite, pyrrhotite, chalcopyrite and pyrite plus minor sphalerite and bornite. Disseminated to massive magnetite is the most abundant ore mineral. Disseminated to blebby chalcopyrite, pyrrhotite and pyrite are less abundant and typically replace magnetite. Sphalerite and bornite are relatively rare and are associated with chalcopyrite. A paragenetic study carried out in 1978 (Hureau) determined that magnetite and pyrite formed first, followed by pyrrhotite, then chalcopyrite and sphalerite, and finally bornite.

Mineralized and unmineralized skarn horizons are interbedded with schist, limestone and marble. All of these units are cut by post-mineralization feldspar porphyry and intermediate to mafic dykes. The dykes appear to strike northerly and dip steeply, while bedding strikes northerly and dips shallowly to the east.

The best intervals from the historical holes are listed in Table X.

Table X – Historical Diamond Drilling Assay Highlights

Hole	From (m)	To (m)	Interval (m)	Copper (%)	Gold (g/t)	Silver (g/t)
TH-1	15.54	21.00	5.46	0.14	0.14	3.0
TH-1	115.82	119.18	3.35	0.30	0.30	2.3
TH-2	23.53	42.12	18.59	1.94	0.87	14.6
TH-4	54.89	65.32	10.43	1.25	0.65	9.7
TH-6	57.36	70.10	12.74	1.05	NR	NR
TH-7	91.84	97.72	5.88	0.17	0.15	3.7
TH-8	60.81	69.28	8.47	0.76	0.71	7.3
including	62.79	67.09	4.30	1.27	0.81	10.6
TH-9	53.34	66.96	13.62	0.42	0.30	4.8
including	64.07	65.01	0.94	3.06	0.86	20.2
TH-12	143.65	143.86	0.21	2.42	3.0	16.1
TH-12	169.62	170.08	0.46	1.38	1.8	0.8
TH-13	170.08	171.36	1.28	0.36	0.08	NR
TH-15	111.80	114.79	2.99	0.20	0.19	3.4
HA-1	52.38	53.69	1.31	2.70	0.86	35.7
HA-1	59.61	60.71	1.10	3.72	0.80	18.7
HA-1	101.24	104.18	2.94	0.45	0.32	4.4
HA-2	23.09	30.88	7.79	1.98	0.67	14.4
HA-3	14.63	17.51	2.88	0.56	0.20	7.0
HA-4	19.28	20.61	2.29	1.29	0.35	10.5
HA-4	24.95	29.96	5.01	0.62	0.33	13.6
HA-5	22.97	25.08	2.11	0.54	0.23	4.7

NR – not reported

Holes TH-3 and TH-10 were cored only in dykes, while holes TH-4 and TH-9 cut dykes where mineralization was expected (Tenney, 1977). Hole TH-5 was lost prematurely in a fault zone. Weak chalcopyrite was observed in schist and skarn in Holes TH-11 and TH-14, but no significant results were obtained.

2011 DIAMOND DRILLING

In 2011, a six hole diamond drill program was completed in the vicinity of the historical diamond drill holes at Hopkins South Zone. This program was primarily designed to confirm the nature and extent of the known skarn mineralization. The work was contracted to Elite Drilling

Inc. of Vernon, B.C., and was done with a skid-mounted, diesel-powered JKS-300 drill using BTW equipment. A total of 1309.09 m of diamond drilling was completed.

Key data concerning the 2011 drill holes are listed in Table XI.

Table XI – 2011 Diamond Drill Hole Data

Hole	Easting (m)	Northing (m)	Elevation (m)	Azimuth (º)	Dip Angle (º)	Length (m)
DDH-11-01	397455	6794600	1179	250	-70	175.87
DDH-11-02	397450	6794650	1189	250	-70	160.63
DDH-11-03	397497	6794708	1200	250	-70	224.63
DDH-11-04	397660	6794750	1189	250	-70	258.16
DDH-11-05	397280	6794800	1222	250	-70	192.02
DDH-11-06	397710	6795100	1270	250	-70	297.78

The 2011 holes were selectively sampled, based on visible mineralization. Drill core samples were processed in 36 sample batches with each batch including two standard and two blank samples. Analytical work was done by ALS Minerals with sample preparation in Whitehorse and assays and geochemical analyses in North Vancouver. All samples were initially analyzed for gold by fire assay followed by atomic absorption (Au-AA24) and 51 other elements by aqua regia digestion and mass spectrometry (ME-MS41). Over limit copper values were determined using aqua regia digestion with inductively coupled plasma and either atomic emission spectroscopy or atomic absorption spectroscopy (Cu-OG46).

All of the 2011 holes were drilled west-southwesterly at fairly steep angles to test the shallow, easterly-dipping skarn horizons and associated geophysical anomalies. All holes intersected stacked mineralized skarn horizons. There appear to be at least four main stacked horizons, which were traced over a 540 by 300 m area and to a depth of 258 m. The horizons remain open in all directions. The upper horizon on Section C-C' was likely not intersected by any of the holes on Sections A-A' and B-B'. The deeper of the two horizons on Section C-C' may correspond to the upper horizon on the other sections. If that is the case, the holes on Section C-C' did not test the lower stacked horizons that were intersected on the other section lines.

The holes intersected metasedimentary units (schist, marble, limestone and quartzite), intrusive dykes (feldspar porphyry and intermediate to mafic dykes) and skarn horizons (tremolite-actinolite-diopside±magnetite±garnet). Observations regarding sulphide/oxide mineralogy confirmed the historical descriptions (see Historical Diamond Drilling sub-section). In 2013, all 2011 drill core was quick logged to conform with lithologies assigned during detail mapping of the property earlier in the summer. The number and percentage of variably mineralized skarn horizons intersected within each 2011 diamond drill hole are provided in Table XII, while the best 2011 drill intersections are listed in Table XIII.

Table XII – Number and Percentage of Skarn Horizons in 2011 Diamond Drill Holes

Hole	Number of Skarn Horizons	Percentage of Skarn in Hole
DDH-11-01	11	18
DDH-11-02	4	4
DDH-11-03	12	14
DDH-11-04	25	20
DDH-11-05	21	17
DDH-11-06	22	19

Table XIII – 2011 Diamond Drilling Assay Highlights

Hole	From (m)	To (m)	Interval* (m)	Copper (%)	Gold (g/t)	Silver (g/t)
DDH-11-01	2.95	16.65	13.70	0.41	0.25	3.84
Including	9.69	12.02	2.33	1.24	0.87	12.95
	125.67	142.60	16.93	0.22	1.76	1.75
Including	125.67	133.17	7.50	0.43	3.35	3.55
Including	125.67	127.67	2.00	0.01	9.44	1.04
DDH-11-02	28.01	30.45	2.44	0.52	0.72	4.15
	36.58	39.25	2.67	1.18	0.56	11.62
DDH-11-03	58.28	66.78	8.50	1.62	0.54	9.30
	88.28	90.70	2.42	1.87	0.64	17.74
	130.00	132.45	2.45	0.72	0.18	6.79
DDH-11-04	57.39	62.53	5.15	0.95	0.84	5.64
	174.86	182.87	8.01	1.58	0.84	14.82
DDH-11-05	126.93	128.05	1.12	0.46	1.83	1.74
DDH-11-06	131.80	136.80	5.00	0.50	0.29	2.35
	276.35	278.01	1.66	0.68	0.40	5.21
	279.10	282.93	3.83	1.05	0.85	21.44

* Interval represents the downhole intersection length and true widths are estimated to be approximately 80-90% of the interval.

The highest gold assay (9.44 g/t over 2.00 m in DDH-11-01) came from an epidote-garnet skarn with thin chlorite bands and disseminated black "pock-marks" rarely filled with pyrite. The interval following the gold assay is a semi-massive to massive magnetite-pyrrhotite skarn with chalcopyrite and pyrite.

In many skarn horizons, magnetite has been wholly or partially replaced by sulphide minerals; however, some horizons in DDH-11-06 comprise semi-massive, coarse grained, unaltered magnetite.

REVERSE CIRCULATION PERCUSSION DRILLING

HISTORICAL PERCUSSION DRILLING

In 1980, a total of 2490.2 m of percussion drilling was performed in 46 vertical holes. The percussion holes were all drilled within the Hopkins South Zone, in the same general areas as the historical diamond drill holes (Figure 3 – locations are approximate due to the poor quality of historical maps). Samples from the percussion holes were only analyzed for copper.

Of the 46 holes that were drilled, only parts of 20 holes were sampled. Of these, all but five yielded at least one interval with elevated copper values. Nine of the 46 holes were drilled entirely within dyke material and were not sampled. Old reports did not explain why the remaining 17 holes were not sampled, but some appear to have been abandoned and re-drilled. Drill hole data and the best intervals from this work are provided in Table XIV (Ashton, 1981).

Table XIV – 1980 Percussion Hole Data and Results

Hole	Azimuth (º)	Dip Angle (º)	Depth (m)	Significant Results
PH-1	-	-90	40	1.52% Cu over 18.3 m from 21.3 to 39.6 m
PH-1a	-	-90	15	NA
PH-2	-	-90	18	Dyke, NA
PH-3	-	-90	52	Dyke, NA
PH-4	-	-90	37	Dyke, NA
PH-5	-	-90	61	0.23% Cu over 3.0 m from 42.7 to 45.7 m
PH-6	-	-90	9	NA
PH-6a	-	-90	76	< 0.1% Cu
PH-7	-	-90	12	< 0.1% Cu
PH-7a	-	-90	76	NA
PH-8	-	-90	61	< 0.1% Cu
PH-9	-	-90	61	< 0.1% Cu
PH-10	-	-90	61	0.16% Cu over 3.0 m from 12.2 to 15.2 m 0.24% Cu over 15.2 m from 21.3 to 36.6 m
PH-11	-	-90	82	NA
PH-12	-	-90	82	NA
PH-13	-	-90	85	NA
PH-14	-	-90	55	NA
PH-15	-	-90	40	NA
PH-16	-	-90	82	Dyke, NA
PH-17	-	-90	61	0.61% Cu over 15.3 m from 33.5 to 48.8 m
PH-18	-	-90	82	0.73% Cu over 21.3 m from 48.8 to 70.1 m
PH-18a	-	-90	15	Dyke, NA
PH-18b	-	-90	15	Dyke, NA
PH-19	-	-90	85	NA
PH-20	-	-90	15	Dyke, NA

PH-21	-	-90	15	Dyke, NA
PH-22	-	-90	27	NA
PH-23	-	-90	15	Dyke, NA
PH-24	-	-90	73	0.60% Cu over 6.1 m from 45.7 to 51.8 m
PH-25	-	-90	64	0.29% Cu over 3.0 m from 51.8 to 54.8 m
PH-26	-	-90	61	NA
PH-27	-	-90	67	0.21% Cu over 6.1 m from 39.6 to 45.7 m
PH-28	-	-90	85	< 0.1% Cu
PH-29	-	-90	85	NA
PH-30	-	-90	79	NA
PH-31	-	-90	58	0.10% Cu over 3.1 m from 27.4 to 30.5
PH-32	-	-90	76	0.61% Cu over 9.2 m from 39.6 to 48.8 m
PH-33	-	-90	52	NA
PH-34	-	-90	67	0.20% Cu over 6.1 m from 42.7 to 48.8 m
PH-35	-	-90	73	NA
PH-36a	-	-90	49	1.49% Cu over 3.0 m from 42.7 to 45.7 m
PH-37	-	-90	27	NA
PH-38	-	-90	61	0.66% Cu over 21.3 m from 36.6 to 57.9 m
PH-39	-	-90	61	1.44% Cu over 9.2 m from 45.7 to 54.9 m
PH-40	-	-90	64	0.84% Cu over 6.1 m from 57.9 to 64.0 m
PH-41	-	-90	49	NA

NA = Not analyzed

2011 PERCUSSION DRILLING

The 2011 reverse circulation percussion drill program was designed to identify near surface areas with potential for copper-gold porphyry mineralization within and adjacent to the Hopkins North Zone. Surface showings and geochemical anomalies were discovered in this area by previous operators, but they were never drill tested. A total of 1729.74 m was drilled in 58 vertical holes, which were mostly spaced 200 m apart and typically tested to depths between 30 to 61 m below surface. The holes are located along seven parallel section lines oriented due north. The work was contracted to Thorman Drilling Ltd. of Nelson, B.C., and was done with a self-propelled, track-mounted reverse circulation drill. The drill was operated by a three person crew on a single 12 hour per day shift.

All holes were sampled continuously from top to bottom. Pulverized cuttings from the holes were automatically split at the collar, resulting in samples containing 12.5% of the cuttings from each 1.52 m interval. The entire sample was sent for analysis, and representative chips from intervals were collected for logging purposes. Key data concerning the 2011 drill holes are listed in Table XV.

Table XV – 2011 Percussion Drill Hole Data

Hole	Easting (m)	Northing (m)	Elevation (m)	Azimuth (º)	Dip Angle (º)	Length (m)
PDH-11-01	397303	6795300	1280	-	-90	30.48
PDH-11-02	397301	6795501	1312	-	-90	32.00
PDH-11-03	397299	6795700	1308	-	-90	30.48
PDH-11-04	397298	6795899	1325	-	-90	19.81
PDH-11-05	397303	6796101	1356	-	-90	22.86
PDH-11-06	397302	6796301	1374	-	-90	16.76
PDH-11-07	397312	6796496	1371	-	-90	30.48
PDH-11-08	397301	6796701	1366	-	-90	15.24
PDH-11-09	397298	6796900	1358	-	-90	16.76
PDH-11-10	397297	6797099	1357	-	-90	25.91
PDH-11-11	397299	6797301	1355	-	-90	30.48
PDH-11-12	397304	6797502	1350	-	-90	39.62
PDH-11-13	397298	6797699	1341	-	-90	36.58
PDH-11-14	397302	6797900	1329	-	-90	30.48
PDH-11-15	397102	6797905	1330	-	-90	50.29
PDH-11-16	397101	6797699	1341	-	-90	35.05
PDH-11-17	397132	6797503	1386	-	-90	38.10
PDH-11-18	397099	6797290	1374	-	-90	42.67
PDH-11-19	397094	6797103	1371	-	-90	33.53
PDH-11-20	397104	6796898	1353	-	-90	41.15
PDH-11-21	396912	6796695	1335	-	-90	48.77
PDH-11-22	396937	6796905	1341	-	-90	60.96
PDH-11-23	396922	6797063	1332	-	-90	60.96
PDH-11-24	397098	6796698	1343	-	-90	24.38
PDH-11-25	397097	6796501	1342	-	-90	19.81
PDH-11-26	397097	6796298	1352	-	-90	21.34
PDH-11-27	397105	6796097	1338	-	-90	28.96
PDH-11-28	397502	6795099	1280	-	-90	24.38
PDH-11-29	397503	6795301	1289	-	-90	24.38
PDH-11-30	397498	6795502	1301	-	-90	18.29
PDH-11-31	397502	6795699	1313	-	-90	21.34
PDH-11-32	397498	6795904	1314	-	-90	19.81
PDH-11-33	397500	6796104	1342	-	-90	18.29
PDH-11-34	397498	6796302	1365	-	-90	21.34
PDH-11-35	397502	6796504	1371	-	-90	18.29
PDH-11-36	397501	6796703	1365	-	-90	21.34
PDH-11-37	397502	6796901	1353	-	-90	18.29
PDH-11-38	397504	6797102	1341	-	-90	30.48
PDH-11-39	397502	6797304	1345	-	-90	39.62
PDH-11-40	397501	6797503	1347	-	-90	30.48
PDH-11-41	397499	6797702	1340	-	-90	22.86

PDH-11-42	397702	6797704	1338	-	-90	30.48
PDH-11-43	397699	6797502	1341	-	-90	30.48
PDH-11-44	397902	6797504	1371	-	-90	30.48
PDH-11-45	398102	6797501	1402	-	-90	30.48
PDH-11-46	398099	6797302	1435	-	-90	30.48
PDH-11-47	398102	6797101	1432	-	-90	30.48
PDH-11-48	397703	6797104	1389	-	-90	30.48
PDH-11-49	397699	6796903	1400	-	-90	30.48
PDH-11-50	397702	6796704	1375	-	-90	30.48
PDH-11-51	397699	6796500	1347	-	-90	30.48
PDH-11-52	397698	6796302	1356	-	-90	30.48
PDH-11-53	397703	6796102	1347	-	-90	30.48
PDH-11-54	397702	6795901	1325	-	-90	30.48
PDH-11-55	397701	6795702	1303	-	-90	30.48
PDH-11-56	397698	6795499	1310	-	-90	30.48
PDH-11-57	397701	6795302	1295	-	-90	30.48
PDH-11-58	397702	6795104	1278	-	-90	30.48

Chip samples from all of the 2011 percussion drill holes were examined under a hand lens and later an optical microscope. The chips comprise metasedimentary units (primarily quartz-biotite schist and phyllitic quartzite), skarn horizons (including diopside, epidote and actinolite with trace to minor pyrite and chalcopyrite) and intrusive units (weakly to moderately argillic and propylitic altered, magnetic granodiorite and minor diorite). The observed lithologies within the percussion holes generally support the 2013 surface geological mapping.

Most of the holes returned background values or sporadic, short intervals of weakly elevated copper, gold and/or silver values. Six holes in the northern part of the percussion drill area yielded moderately to strongly anomalous intervals. These holes largely fall within the area of known surface mineralization within the Hopkins North Zone. The elevated values were obtained from weakly mineralized phyllitic quartzite (PDH-11-13 and -17); weakly magnetite-, pyrite- and chalcopyrite-bearing skarn (PDH-11-17); and weakly altered granodiorite with trace pyrite ± chalcopyrite (PDH-11-19, -23, -39 and -47). The best intervals from these holes are provided in Table XVI.

Table XVI – 2011 Percussion Drilling Assay Highlights

Hole	From (m)	To (m)	Interval (m)	Copper (%)	Gold (g/t)	Silver (g/t)
PDH-11-13	33.53	EOH	3.05	0.54	0.278	3.85
PDH-11-17	21.34	EOH	16.76	0.16	0.009	1.27
PDH-11-19	19.81	28.96	9.15	0.36	0.007	2.32
PDH-11-23	42.67	44.20	1.53	0.33	0.005	0.70
PDH-11-39	0	EOH	39.62	0.24	0.055	1.37
Including	28.96	EOH	10.66	0.70	0.195	4.10
PDH-11-47	0	7.62	7.62	0.18	0.018	2.04

*Interval represents the downhole intersection length and true widths are unknown at this time.

Four of the holes listed in Table XVI bottomed in mineralization. Two additional holes (PDH-11-45 and -46) in the northern part of the drill area bottomed in weak mineralization (0.10% Cu over 1.52 m in both holes, with background gold and silver).

One or more samples from all percussion holes drilled within the molybdenum-in-soil anomaly near the southern contact between the Hopper Pluton and metasediments (PDH-11-02, -03, -31, -32 and -55) yielded elevated molybdenum. The best interval averaged 93.6 ppm molybdenum over 10.67 m between 15.24 and 25.91 m in PDH-11-03.

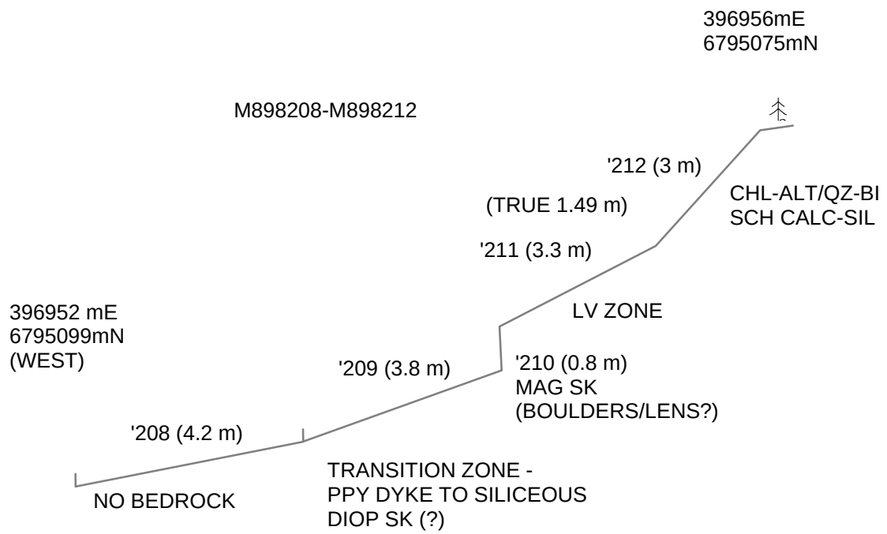
HAND TRENCHING

In 2014, 11 hand trenches were dug on the Hopper property in, or along strike of, areas where skarn mineralization has previously been identified (Figure 8). As stated in the Mineralization section above, a total of 83 chip samples were collected from the 11 hand trenches. Cross sections illustrating geology and sample numbers for TR-14-01 to TR-14-11 are shown on Figures 15 to 22. Each trench was sampled continuously across exposed bedrock over the entire length of the trench. Results from this sampling are described in the following paragraphs. The chip samples were processed using the same preparation and analytical techniques described above for the rock samples. Certificates of Analysis are located in Appendix III and Table XVII below provides details for each trench.

Table XVII – 2014 Hand Trenching Details

Target	Trench ID	Easting	Northing	Length (m)	Samples
LV Zone	TR-14-01	396952	6795099	2.4	M898208-M898212
		396956	6795105		
LV Zone	TR-14-02	396947	6795091	16.15	M898201-M898207
		396960	6795092		
LV Zone	TR-14-03	396947	6795074	20.6	M898213-M898219
		396956	6795078		
LV Zone	TR-14-04	396948	6795058	17.5	M898239-M898244
		396962	6795062		
LV Zone	TR-14-05	396949	6795043	13	M898245-M898248
		396960	6795038		
LV Zone	TR-14-06	396948	6795005	19	M898249-M898259
		396965	6795006		
Molybdenum Vein	TR-14-07	397144	6795765	6.5	M898229-M898232
		397138	6795765		
Molybdenum Vein	TR-14-08	397127	6795749	6	M898233-M898235
		397121	6795753		
Exoskarn north of JG Zone	TR-14-09	397115	6795665	24	M898236-M898264
		397095	6795657		
Exoskarn north	TR-14-10	397137	6795650	40	M898265-M898277

TR-14-01
Cross-section facing north

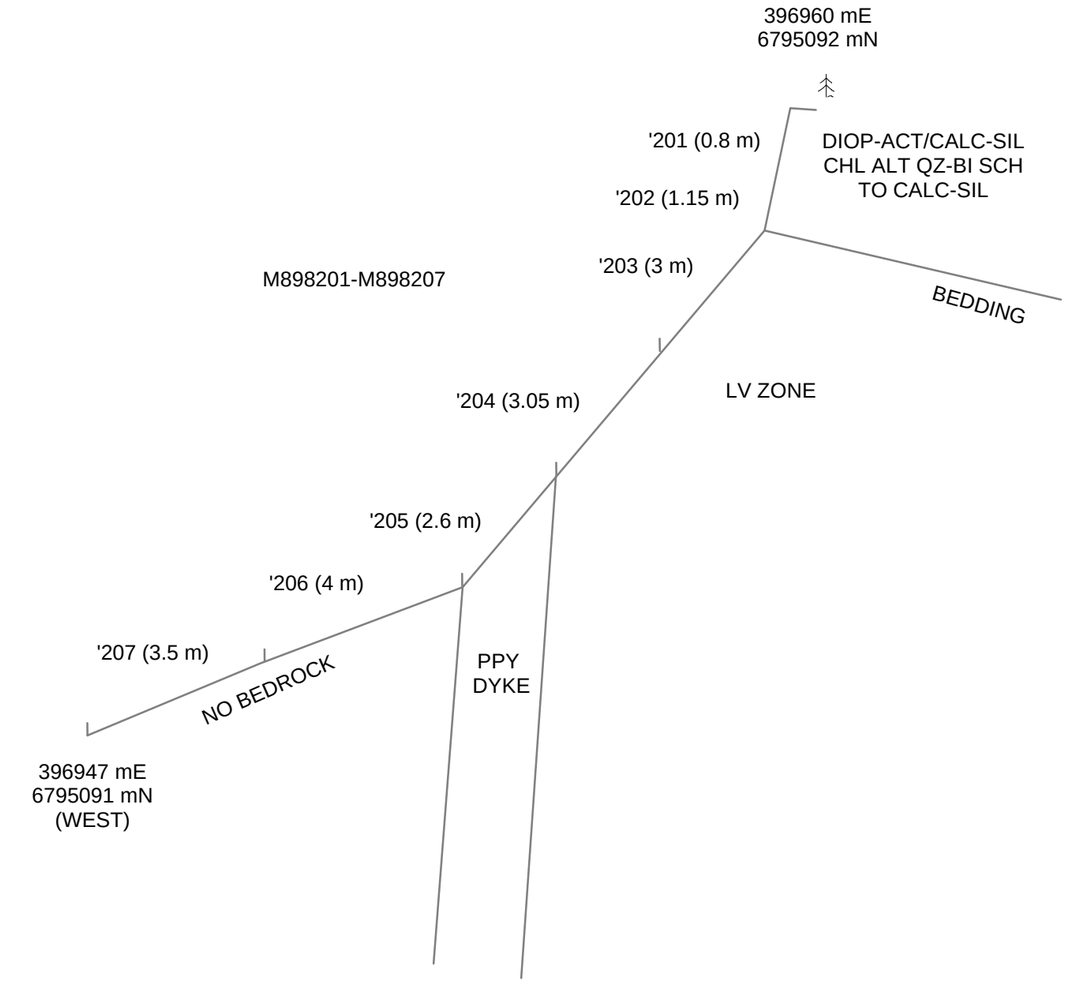


PPY - Porphyry
Diop - diopside
Act - actinolite
Trem - tremolite
Chl - chlorite
Qz - quartz
Bi - biotite
Calc-sil - calc-silicate
Carb - carbonate

Gar - garnet
Mag - magnetite
Cpy - chalopyrite
Mo - molybdenum

SCH - schist
ANDS - andesite
QZT - quartzite
GDR - granodiorite
VN - vein
SK - skarn
LV, JG Zone - mineralized zone
MAL - malachite
SCOR - scorodite

TR-14-02
Cross-section facing north



STRATEGIC METALS LTD.

FIGURE 15

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TR-14-01 & 02

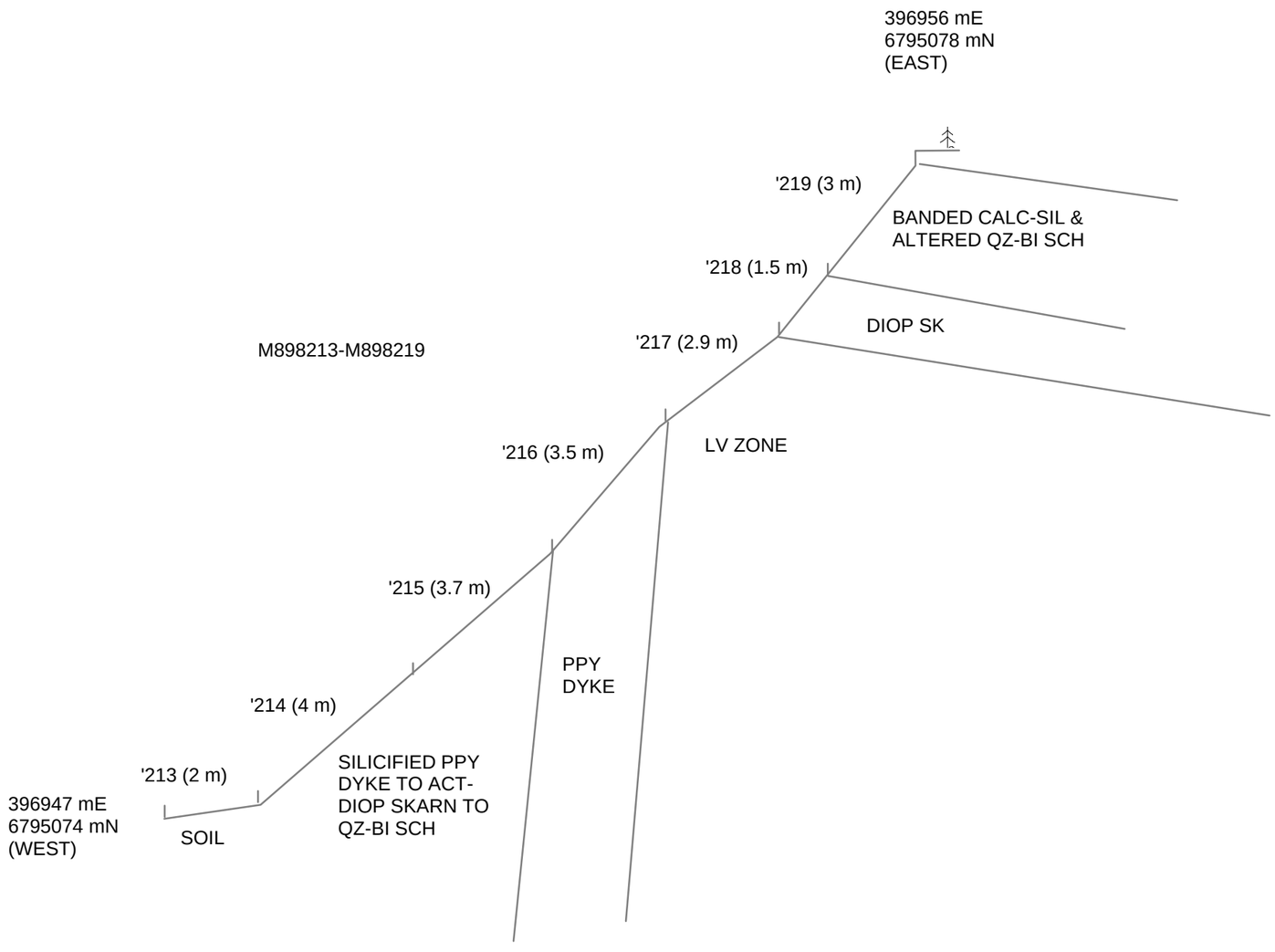
HOPPER PROPERTY

0 4 m

FILE: .../2014/HOPPER

DATE: MAY 2015

Cross-section facing north



PPY - Porphyry
Diop - diopside
Act - actinolite
Trem - tremolite
Chl - chlorite
Qz - quartz
Bi - biotite
Calc-sil - calc-silicate
Carb - carbonate

Gar - garnet
Mag - magnetite
Cpy - chalopyrite
Mo - molybdenum

SCH - schist
ANDS - andesite
QZT - quartzite
GDR - granodiorite
VN - vein
SK - skarn
LV, JG Zone - mineralized zone
MAL - malachite
SCOR - scorodite

STRATEGIC METALS LTD.

FIGURE 16

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TR-14-03

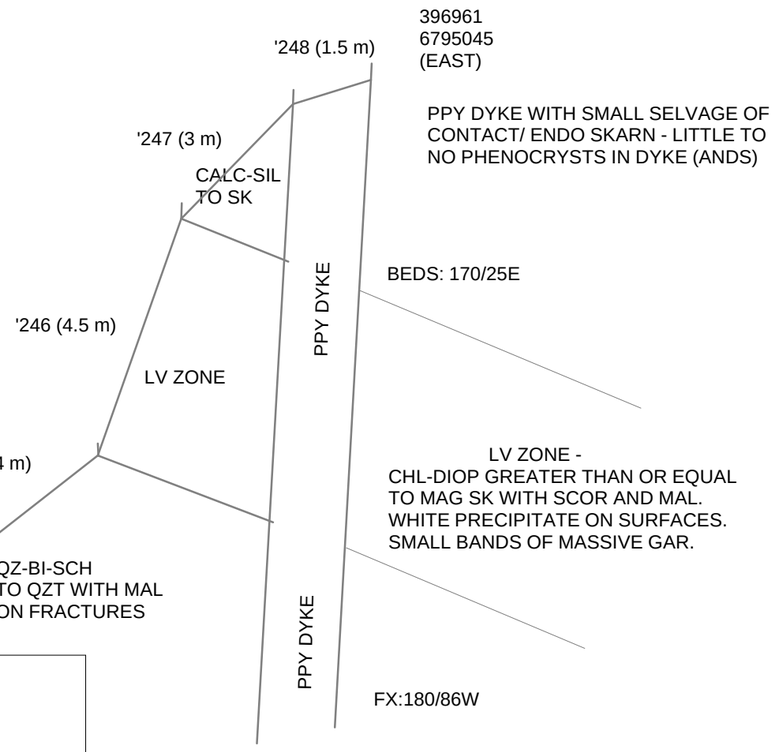
HOPPER PROPERTY

0 4 m

FILE: .../2014/HOPPER

DATE: MAY 2015

TR-14-04
Cross-section facing north

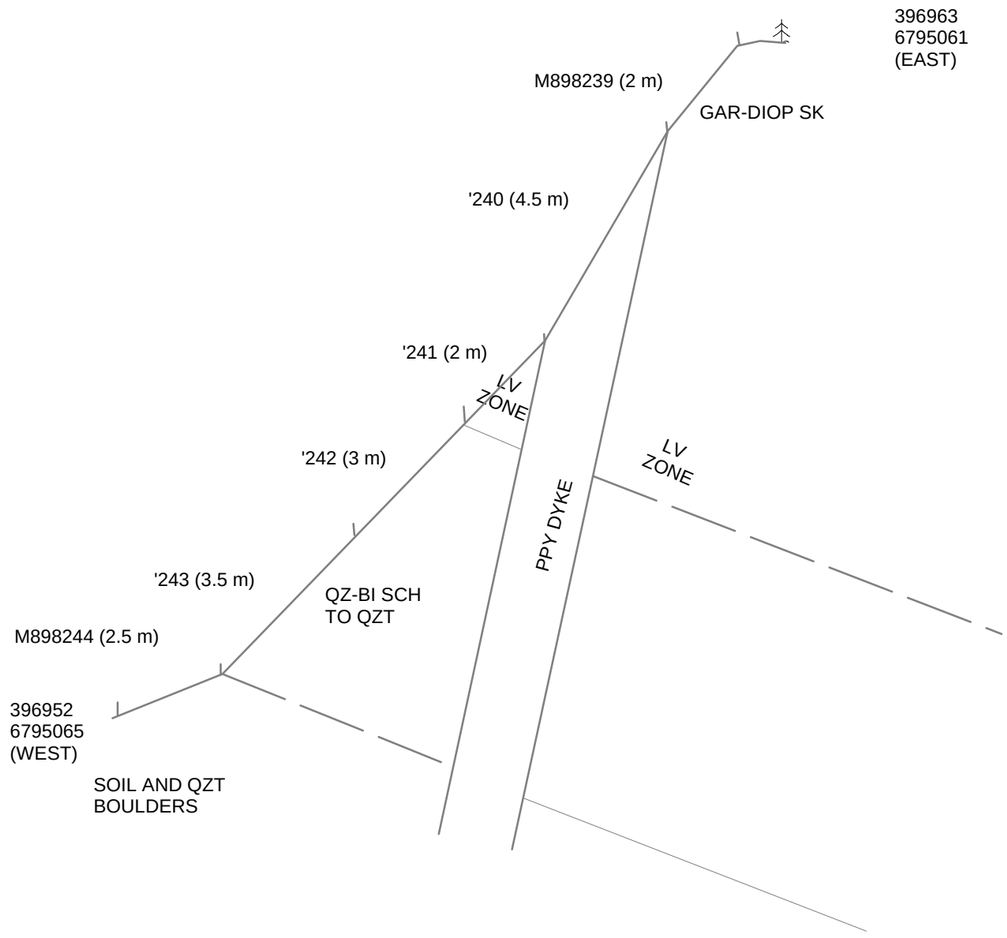


PPY - Porphyry
Diop - diopside
Act - actinolite
Trem - tremolite
Chl - chlorite
Qz - quartz
Bi - biotite
Calc-sil - calc-silicate
Carb - carbonate

Gar - garnet
Mag - magnetite
Cpy - chalopyrite
Mo - molybdenum

SCH - schist
ANDS - andesite
QZT - quartzite
GDR - granodiorite
VN - vein
SK - skarn
LV, JG Zone - mineralized zone
MAL - malachite
SCOR - scorodite

TR-14-05
Cross-section facing north



STRATEGIC METALS LTD.

FIGURE 17
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TR-14-04, 05

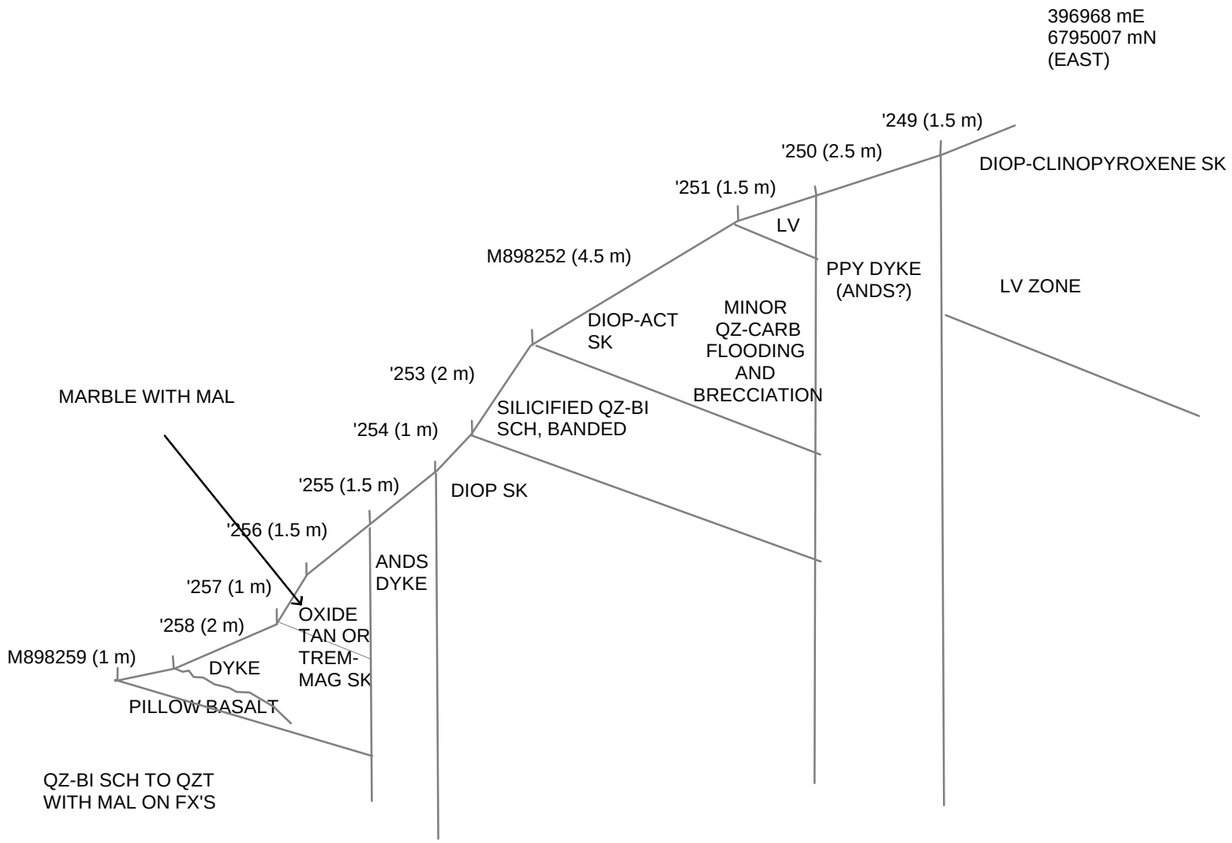
HOPPER PROPERTY

0 4 m

FILE: .../2014/HOPPER

DATE: MAY 2015

Cross-section facing north



PPY - Porphyry
Diop - diopside
Act - actinolite
Trem - tremolite
Chl - chlorite
Qz - quartz
Bi - biotite
Calc-sil - calc-silicate
Carb - carbonate

Gar - garnet
Mag - magnetite
Cpy - chalopyrite
Mo - molybdenum

SCH - schist
ANDS - andesite
QZT - quartzite
GDR - granodiorite
VN - vein
SK - skarn
LV, JG Zone - mineralized zone
MAL - malachite
SCOR - scorodite

STRATEGIC METALS LTD.

FIGURE 18
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TR-14-06

HOPPER PROPERTY

0 4 m

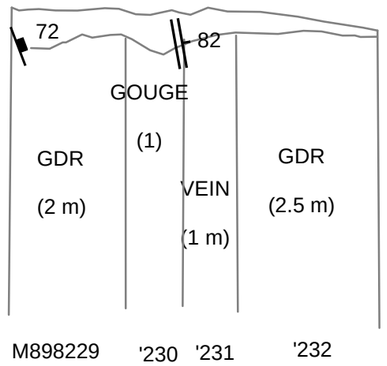
FILE: .../2014/HOPPER

DATE: MAY 2015

TR-14-08
Cross-section facing north

397138 mE
6795769 mN
(WEST)

397144 mE
6795765 mN
(EAST)



'229 HBLD-BI GDR - WEAK CHL ALTERATION. FX 225/72E

'230 ALTERED HBLD-BI GDR -WITH RED/ORANGE SOIL GOUGE

'231 QZ VN ZONE WITH LESS THAN
5% DISSEMINATED MO. ORIENTATION: 180/82E

'232 HBLD-BI GDR- WEAK CHL ALT. FX1 255/345. FX2: 170/67 W

PPY - Porphyry
Diop - diopside
Act - actinolite
Trem - tremolite
Chl - chlorite
Qz - quartz
Bi - biotite
Calc-sil - calc-silicate
Carb - carbonate

Gar - garnet
Mag - magnetite
Cpy - chalopyrite
Mo - molybdenum

SCH - schist
ANDS - andesite
QZT - quartzite
GDR - granodiorite
VN - vein
SK - skarn
LV, JG Zone - mineralized zone
MAL - malachite
SCOR - scorodite

TR-14-07
Cross-section facing north

397121 mE
6795753 mN
(WEST)

397121 mE
6795749 mN
(EAST)

M898233
(1.5 m)

M898234
(2.5 m)

M898235
(2 m)

M898233 - (1.5 m) HBLD-BI GDR. FX: 198/83 W

M898234 - (2.5 m) GOUGE/VEIN ZONE RUSTY,
RED SOIL, CHALCEDONIC VN WITH DISSEMINATED
MO AND CPY (<5%)

M898235 - (2 m) HBLD-BI GDR
FX1: 176/84W
FX2: 245/86S

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FIGURE 19
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TR-14-07 & 08

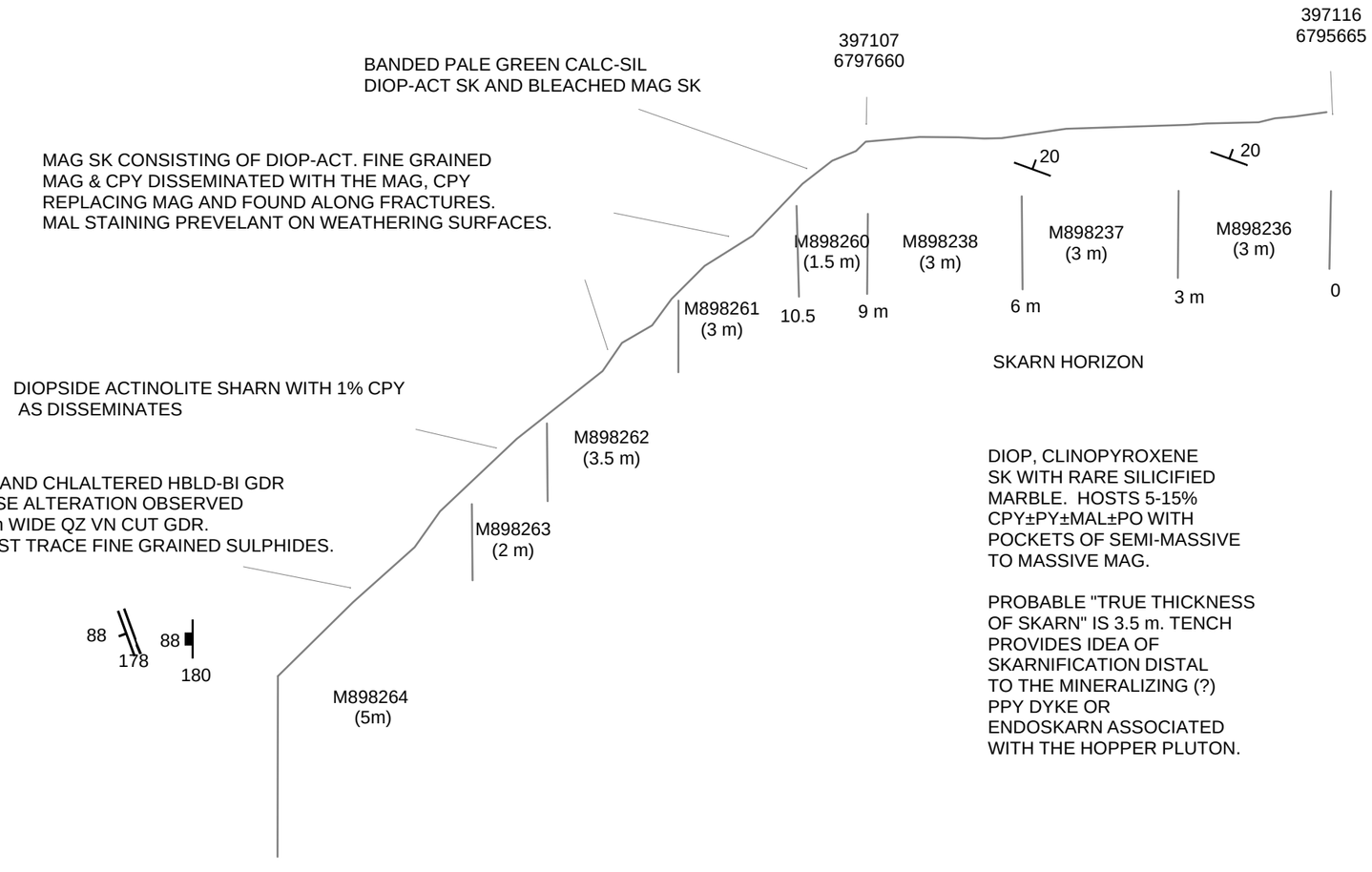
HOPPER PROPERTY

0 4 m

FILE: .../2014/HOPPER

DATE: MAY 2015

Cross-section facing north



PPY - Porphyry
Diop - diopside
Act - actinolite
Trem - tremolite
Chl - chlorite
Qz - quartz
Bi - biotite
Calc-sil - calc-silicate
Carb - carbonate

Gar - garnet
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Mo - molybdenum

SCH - schist
ANDS - andesite
QZT - quartzite
GDR - granodiorite
VN - vein
SK - skarn
LV, JG Zone - mineralized zone
MAL - malachite
SCOR - scorodite

STRATEGIC METALS LTD.

FIGURE 20
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TR-14-09

HOPPER PROPERTY

0 4 m

FILE: .../2014/HOPPER

DATE: MAY 2015

Cross-section facing north

397101 mE
6795642 mN
(WEST)

'276
(2 m)

'275
(4 m)

'274
(3 m)

'273
(4 m)

'272
(3 m)

'271
(3 m)

'270
(4 m)

'269
(3 m)

'268
(3 m)

'267
(1.5 m)

'266
(1.5 m)

M898265
(4 m)

397137
6795650
(EAST)

M898277
(3 m)

CALC-SIL AFTER SCH WITH GAR SK. MOSTLY AFTER SCH.
FX1: 192/85W

HBLD-BI GDR DYKE WITH SMALL XENOLITH OF SK

FX:176/VERT

SEMI-MASSIVE MAG SK WITH SERICITE-DIOP-CLINOPYROXENE WITH MAL AND CPY. MAG REPLACES QZ-BI SCH BANDS.

SEMI-MASSIVE MAG SK WITH DISSEMINATED CPY AND MAL

MAG-DIOP SK WITH DISSSEMINATED CPY, MALSLIGHTLY RECESSIVE

RELICT BEDS @ 22°E

DIOP-ACT SK WITH 10% CPY, MOLY, SEMI-MASSIVE MAG

DIOP-CHL-MAG SK WITH DISSEMINATED CPY, EARTHY HEMATITE AND P0-SLIGHTLY RECESSIVE

QUARTZITE

STRONGLY SILICIFIED, INTERBEDDED WITH SKARNIFIED ZONES. DISSEMINATED AND FRACTURE-FILLING CPY AND MAL.

BEDDING: 186/25E

CHL-ALT HBLD-BI GDR DYKE

FX:150/80E

OXIDISED

OXIDIZED QZ-BI SCH TO QZT

QZ-BI SCH TO QZT WITH DISSEMINATED AND BELBBY CPY. MAL STAIN

BEDDING: 165/25E

PPY - Porphyry
Diop - diopside
Act - actinolite
Trem - tremolite
Chl - chlorite
Qz - quartz
Bi - biotite
Calc-sil - calc-silicate
Carb - carbonate

Gar - garnet
Mag - magnetite
Cpy - chalopyrite
Mo - molybdenum

SCH - schist
ANDS - andesite
QZT - quartzite
GDR - granodiorite
VN - vein
SK - skarn
LV, JG Zone - mineralized zone
MAL - malachite
SCOR - scorodite

STRATEGIC METALS LTD.

FIGURE 21

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TR-14-10

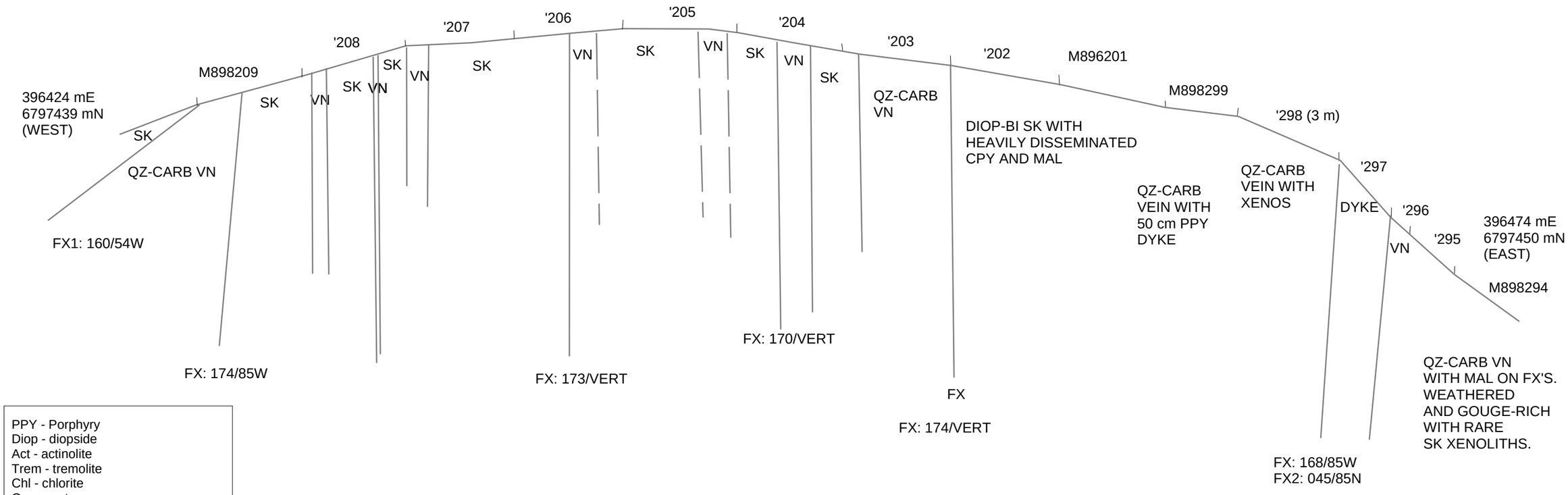
HOPPER PROPERTY

0 4 m

FILE: .../2014/HOPPER

DATE: MAY 2015

Cross-section facing north



PPY - Porphyry
Diop - diopside
Act - actinolite
Trem - tremolite
Chl - chlorite
Qz - quartz
Bi - biotite
Calc-sil - calc-silicate
Carb - carbonate

Gar - garnet
Mag - magnetite
Cpy - chalopyrite
Mo - molybdenum

SCH - schist
ANDS - andesite
QZT - quartzite
GDR - granodiorite
VN - vein
SK - skarn
LV, JG Zone - mineralized zone
MAL - malachite
SCOR - scorodite

PACKAGE CONTAINS ALTERNATING BEDS OF Q2-CARB VNS AND DIOPE-BI SK WITH BLEBBY CPY. MAL ON MOST FRACTURES.

STRATEGIC METALS LTD.

FIGURE 22

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TR-14-11

HOPPER PROPERTY

0 4 m

FILE: .../2014/HOPPER

DATE: MAY 2015

of JG Zone		397101	6795642		
West of Hopkins North Zone	TR-14-11	396474	6797450	37.7	M898294-M898299, M896201-M896209
		396424	6797439		

Six trenches were excavated at the LV Zone along a 110 m strike length. Trenching at the LV Zone is challenging because of large trees, thick vegetation and frozen organics; however, the LV Zone and adjacent country rock were exposed and sampled in all six trenches. The sample length was sometimes determined by physical barriers (vegetation, frozen organics, etc.) and not geology. The best intervals from each of the six trenches were: 0.22% copper, 3.63 g/t gold and 1.81 g/t silver over 2.4 m (TR-14-01); 0.05% copper, 1.64 g/t gold and 0.84 g/t silver over 16.15 m (TR-14-02); 0.13% copper, 1.63 g/t gold and 1.31 g/t silver over 2.9 m (TR-14-03); 0.01% copper, 0.11 g/t gold and 0.06 g/t silver over 2.5 m (TR-14-04); 0.18% copper, 0.083 g/t gold and 0.29 g/t silver over 4 m (Tr-14-05); and, 0.13% copper, 0.712 g/t gold and 4.28 g/t silver over 1.5 m (TR-14-06).

Two trenches (TR-14-07 and TR-14-08) were completed within the Hopper Pluton near its southern contact with the Snow Cap Assemblage metasedimentary package. These trenches tested molybdenum-bearing quartz veins. A 1.0 m chip sample across a molybdenum-rich quartz vein in TR-14-07 returned 8670 ppm molybdenum with low values for gold, silver and copper, while a 2.5 m chip sample of decomposed granodiorite and gouge in TR-14-08 returned 242 ppm molybdenum and 0.20% copper with low gold and silver values.

Trenches TR-14-09 and TR-14-10 lie about 40 m apart within the metasedimentary package about 100 m north of the JG Zone and 30 m south of the Hopper Pluton contact. TR-14-09 returned 0.56% copper, 1.571 g/t gold and 3.35 g/t silver over 19 m (true width is approximately 4.9 m), while TR-14-10 yielded 0.36% copper, 0.767 g/t gold and 2.18 g/t silver over 37 m (true width is about 9.6 m). The mineralized intervals remain open to extension at both ends of both trenches.

TR-14-11 was dug across a knoll that lies in the lowlands west of the Hopper North Zone. This trench tested a large screen/xenolith comprised of alternating vertical bands of mineralized diopside skarn and quartz-carbonate vein. Sampling across the entire 37.7 m length of the trench averaged 0.38% copper, 0.057 g/t gold and 1.55 g/t silver. Due to the vertical orientation of the beds, sampled thickness approximately equals true thickness. TR-14-11 could be extended both to the west and east, to continue testing the mineralized stratigraphy.

GEOPHYSICAL SURVEYS

In 2007, Strategic Metals contracted Geotech Ltd. of Aurora, Ontario to fly VTEM and magnetic surveys across a 6000 by 6000 m grid in the central part of the current Hopper property, and in late 2011 Bonaparte contracted Geotech Ltd. to expand the VTEM and magnetic surveys. Combined, the 2007 and 2011 surveys cover a 110 km^2 area. In December 2012, Condor Consulting was commissioned to perform detailed processing, interpretation and analysis of the entire data set.

The magnetic data from both surveys was reduced to pole and filtered in preparation for interpretation. Figure 23 illustrates Total Magnetic Intensity (TMI). The EM data was more difficult to interpret due to the fact that different transmitter pulse lengths and channels were used during the 2007 and 2011 surveys. This discrepancy meant that the data sets could not be directly merged; however, Condor Consulting was able to find 'medium-late' channels from both surveys (1151 µs and 1161 µs) that averaged 1156 µs and were considered close enough to merge (Irvine and Woodhead, 2013). Figure 24 shows the EM response.

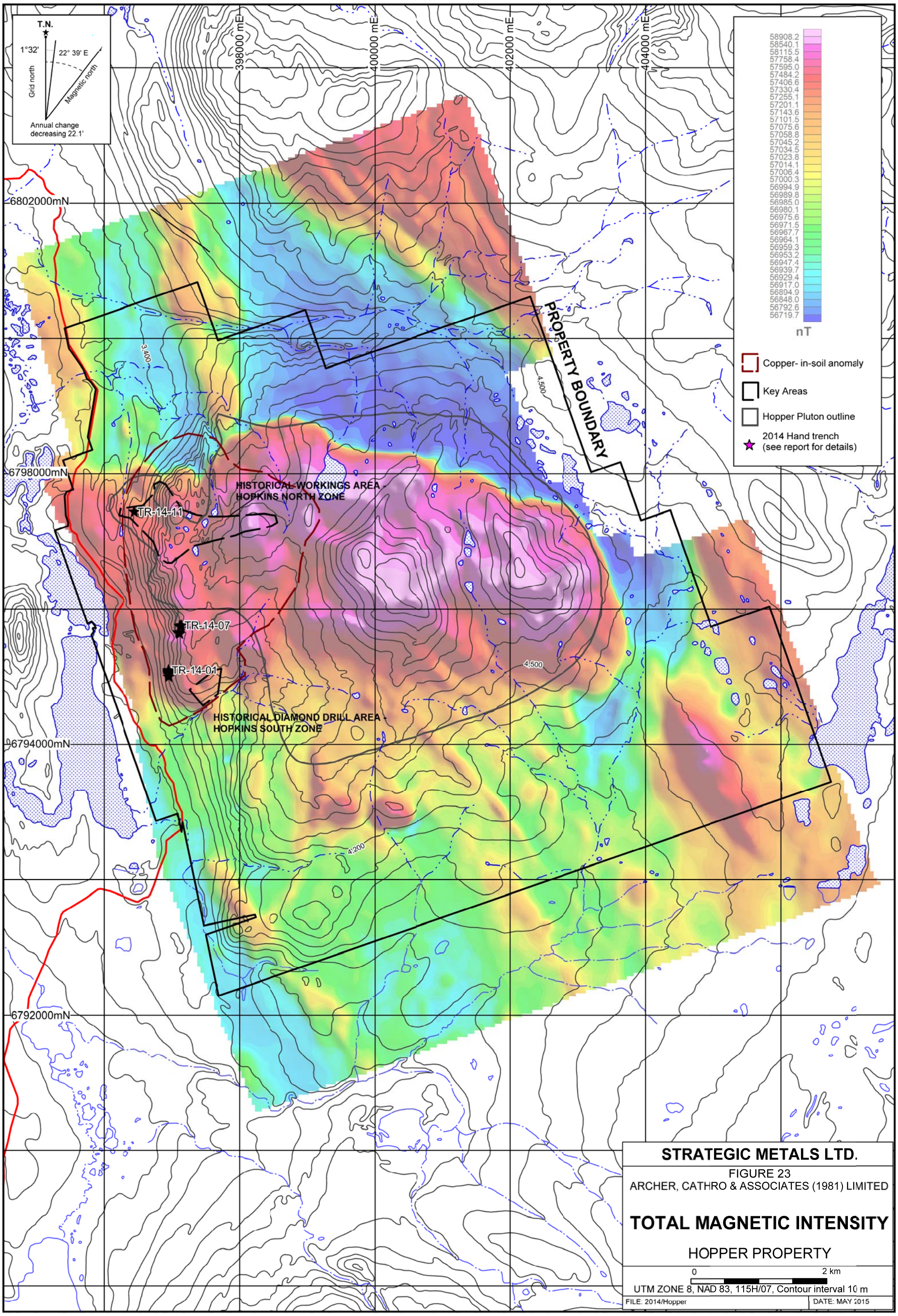
The TMI data roughly outlines the Hopper Pluton as a 3000 by 6000 m, west-northwesterly elongated, very strong magnetic high. North of the pluton, the magnetic signature is subdued with the exception of two small moderate highs, which may represent buried plugs. South of the pluton, the magnetic signature is more complex. The Hopkins South Zone has a strong magnetic signature that blends into the main Hopper Pluton magnetic anomaly. Southeast of the Hopkins South Zone, there are two small circular magnetic highs that are thought to be intrusive plugs. A number of linear northwesterly-trending moderate magnetic highs lie south of the pluton. These features likely represent magnetite-rich horizons within the metasedimentary package.

The Hopper Pluton exhibits low EM response, but it is flanked by a number of well-defined north-northwesterly trending large-scale conductors. In most cases these large-scale EM features are associated with single and/or double peak responses identified by Condor Consulting that are thought to be related to stratigraphy and not mineralization. There are three strong, irregularly shaped conductors on the south side of the Hopper Pluton. The drilled area at the Hopkins South Zone underlies one of these conductors, which features a strong double peak response and numerous weaker single and double peak responses. The other two irregularly shaped EM conductors lie two and four kilometres east of this zone and exhibit similar signatures.

About two kilometres south of the Hopkins South Zone, there is a strong linear EM anomaly with a subtle moderate conductor immediately to its west. This target is considered to be highly prospective for skarn mineralization.

In 2014, SJ Geophysics Ltd. conducted a Volterra Distributed Acquisition System 3D IP survey over the central part of the Hopper plateau. A total of 21 line kilometres was completed on seven 3000 m lines spaced 400 m apart. The survey lines were oriented at 000°, the cross-dipoles were spaced every 400 m along receiver lines and the stations were positioned every 100 m (inline) and 250 m (diamond). There were four transceiver lines and three receiver lines. The SJ Geophysical crew collected survey location information using handheld Garmin GPSMAP 62s units in UTM projection NAD 83, Zone 8N.

The distributed nature of the Volterra 3D IP system allows for highly customizable array and survey configurations. The 3D IP is superior to 2D IP because it allows current injections to be performed sequentially at fixed increments (25, 50, 100 or 200 m) along current lines. By injecting current at multiple locations along the current lines adjacent to receiver arrays, data acquisition rates are significantly improved over conventional surveys. Additionally, the cross-line receiver dipoles are used to increase near-surface resolution (Chen, 2014).


T.N.
1°32'
22° 39' E
Grid north
Magnetic north
Annual change
decreasing 22.1'
398000 mE
400000 mE
402000 mE
404000 mE
6802000mN
6798000mN
6794000mN
6792000mN
58908.2
58540.1
58115.5
57758.4
57595.0
57484.2
57406.6
57330.4
57255.1
57201.1
57143.6
57101.5
57075.6
57058.8
57045.2
57034.5
57023.8
57014.1
57006.4
57000.3
56994.9
56989.8
56985.0
56980.1
56975.6
56971.5
56967.7
56964.1
56959.3
56953.2
56947.4
56939.7
56929.4
56917.0
56894.9
56848.0
56792.6
56719.7
nT
Copper- in-soil anomaly
Key Areas
Hopper Pluton outline
2014 Hand trench
(see report for details)
PROPERTY BOUNDARY
HISTORICAL WORKINGS AREA -
HOPKINS NORTH ZONE
TR-14-11
TR-14-07
TR-14-01
HISTORICAL DIAMOND DRILL AREA -
HOPKINS SOUTH ZONE
3,400
4,500
4,200
STRATEGIC METALS LTD.
FIGURE 23
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
TOTAL MAGNETIC INTENSITY
HOPPER PROPERTY
0
2 km
UTM ZONE 8, NAD 83, 115H/07, Contour interval 10 m
FILE: 2014/Hopper
DATE: MAY 2015

398000 mE
400000 mE
402000 mE
404000 mE
6802000mN
6798000mN
6794000mN
6792000mN
3,400
4,500
4,200
PROPERTY BOUNDARY
HISTORICAL WORKINGS AREA - HOPKINS NORTH ZONE
HISTORICAL DIAMOND DRILL AREA - HOPKINS SOUTH ZONE
TR-14-11
TR-14-07
TR-14-01

1.150
0.592
0.453
0.379
0.329
0.291
0.258
0.229
0.206
0.188
0.171
0.154
0.136
0.121
0.106
0.094
0.083
0.074
0.067
0.061
0.056
0.050
0.042
0.034
0.025
0.015
0.006
-0.003
-0.013
-0.037
-0.067
-0.094
-0.116
-0.136
-0.152
-0.166
-0.182
-0.200
pV/Am^4

Copper- in-soil anomaly
Key Areas
Hopper Pluton outline
2014 Hand trench (see report for details)

T.N.
1°32'
22° 39' E
Grid north
Magnetic north
Annual change decreasing 22.1'

STRATEGIC METALS LTD.

FIGURE 24
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ELECTROMAGNETIC dB/dT

HOPPER PROPERTY

0 2 km

UTM ZONE 8, NAD 83, 115H/07, Contour interval 100 feet

FILE: 2014/Hopper | DATE: MAY 2015

Appendix V contains the deliverables report from SJ Geophysics, while cross-sections of inversion models of interpreted resistivity and chargeability for each survey line can be found in Appendix VI. Figures 25 and 26 illustrate thematic copper-in-soil geochemistry underlain by chargeability and resistivity at 150 m depth.

PETROGRAPHIC STUDIES

Eight hand specimen samples from the Hopper property were sent to Vancouver Petrographics Ltd. for examination in July 2014. Two specimens of each of the four intrusive phases identified during 2014 mapping were submitted for analysis. According to Vancouver Petrographics' report, the four rock types present are granodiorite, gabbro, monzonite and quartz monzonite (Colombo, 2014). Descriptions of individual samples are provided in Table XVIII. A copy of the complete petrographic report is presented in Appendix VII.

Table XVIII – Hopper Pluton Intrusive Suites

Suite (in order of abundance)	Magnetic Susceptibility ($x10^{-8}$ SI Units)	Mineral Assemblage	Alteration	Location (Easting, Northing)
Granodiorite (78.5±0.03 Ma)	16.1 to 22.8	Subhedral plagioclase, quartz, potassium feldspar, lesser biotite and amphibole	Weak chlorite, epidote, actinolite and white clay/mica.	397138, 6795769
Gabbro	12.6 to 14.4	Euhedral plagioclase with interstitial spaces occupied by biotite, amphibole and magnetite. Minor hornblende overprinting	Hornblende and actinolite. Minor potassium feldspar alteration in foliation sub-parallel veinlets.	397551, 6797226
Monzonite	3.67 to 7.47	Plagioclase, hornblende, biotite, magnetite, potassium feldspar and lesser quartz.	Plagioclase replaced by clay and calcite.	396888, 6797336
Quartz-Monzonite	26.6 to 28.0	Plagioclase, potassium feldspar, quartz.	Clay, chlorite, epidote and actinolite.	396199, 6797506

DEPOSIT MODEL

The Hopper property lies at the southern end of the Dawson Range Gold Belt (DRGB) and 120 km northwest of the Whitehorse Copper Belt (WCB). The DRGB encompasses several significant precious metal enriched, porphyry and vein deposits (including Casino, Coffee, Nucleus/Revenue and Mt. Nansen/Klaza), while the WCB hosts numerous copper±gold±silver skarn deposits, some of which have been successfully mined. The porphyry-style mineralization at the Hopper property is most analogous to Western Copper and Gold Corporation's Casino Deposit, which is located 190 km to the north-northwest. The Casino Deposit hosts gold-copper-

molybdenum porphyry-style mineralization and has a measured and indicated mineral reserve of 946 million tonnes (with a copper equivalent cut-off of 0.30%) of 0.21% copper, 0.25 g/t gold, 0.024% molybdenum and 1.77 g/t silver (Corman, 2010).

Age dating of the Hopper Pluton performed by Blumenthal (2010) and Israel (2014) returned Late Cretaceous ages between 76.0 ±1.1 and 83.7±1.9 Ma, and 78.0 ±0.03 Ma, respectively. These dates place it in the same metallogenic episode as the Patton Porphyry, the mineralizing pluton at the Casino property. Geology on the Casino property consists of granitic rocks of the Mid Cretaceous Whitehorse Suite, which has been intruded by the Patton Porphyry. Mineralization found at the Casino Deposit occurs in fractures and breccia pipes. The deposit area is unglaciated so the mineralization is deeply weathered. Ore grade values are reported within leached cap, supergene oxide, supergene sulphide and hypogene zones.

Skarn mineralization at the Hopper property is similar to skarn deposits that were mined in the WCB. Skarns within the WCB were developed during the emplacement of the Early to Mid-Cretaceous Whitehorse Batholith. The WCB encompasses a 30 km long trend that hosts several copper-rich skarn deposits that have collectively produced more than 10 million tonnes grading 1.5% copper with significant gold and silver credits (Watson, 1984).

DISCUSSION AND CONCLUSIONS

The Hopper property covers a broad zone of copper±gold±silver±molybdenum mineralization, which is favourably situated in an area with excellent infrastructure at the southern end of a belt of important gold and copper-gold deposits. Isotopic dating of the Hopper Pluton indicates that it is the same age as the mineralizing pluton at the Casino Deposit, the largest deposit recognized to date within this belt.

Geological mapping in 2014 identified four phases within the bounds of the Hopper Pluton. Multi-phase or multi-pulse intrusive bodies create favourable formational environments for porphyry style mineralization and thus, future work should attempt to determine the distribution of the different phases and their cross-cutting relationships.

Historical drilling within the Hopkins South Zone has identified multiple stacked, mineralized skarn horizons, which are open to extension along strike and down dip. The 2014 program expanded the known skarn zones and identified new areas of mineralization.

Future work on the Hopper property should continue to evaluate the Hopkins North and South zones and test other anomalous areas identified through geochemical or geophysical surveys. The work program should include additional soil sampling, detailed geological mapping, prospecting, hand trenching and diamond drilling.

Soil sampling should be performed on a low priority basis in the northern and eastern parts of the property where soil sample coverage is low. Geological mapping, prospecting and hand trenching should be done in the northern and eastern parts of the property where coincident soil geochemical and chargeability anomalies occur.

Diamond drilling should test a number of targets on the property. Initial drill holes should range between 200 and 400 m in length depending on the target. A few holes should be completed under the LV and JG Zones to test down dip of the known mineralized skarn exposures and to explore for prospective horizons deeper in the stratigraphic section. Other holes should evaluate porphyry copper potential, with at least one hole positioned near PDH Hop-11-39, which returned 0.70% copper, 0.195 g/t gold and 4.10 g/t silver over 10.66 m (Eaton, 2012). Another hole should be located on the upland plateau north of the Hopper Pluton to test coincident copper-in-soil and chargeability (>30 ms) anomalies. Other drill holes should be located once results from the initial drill holes are interpreted.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Heather Burrell, B.Sc., P.Geo.

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APPENDIX I

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Heather Burrell, geologist, with business addresses in Vancouver and Squamish, British Columbia and Whitehorse, Yukon Territory and residential address in Whitehorse, Yukon Territory do hereby certify that:

1. I graduated from the University of British Columbia in 2006 with a B.Sc in Geological Sciences.

2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory, British Columbia and Northwest Territories.

3. I am a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of British Columbia.

4. I am a partner in Archer, Cathro & Associates (1981) Limited.

5. I have personally participated in the fieldwork reported herein and have interpreted all data resulting from this work.

H. Burrell, B.Sc., P.Geo.

APPENDIX II

STATEMENT OF EXPENDITURES

(No expenditures submitted)

APPENDIX III

CERTIFICATES OF ANALYSIS

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 26-JUL-2014
Account: MTT

CERTIFICATE VA14108197

Project: Hopper

This report is for 4 Rock samples submitted to our lab in Vancouver, BC, Canada on 14-JUL-2014.

The following have access to data associated with this certificate:

HEATHER BURRELL	JOAN MARIACHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

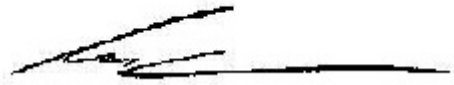
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	ICP-AES

To: **STRATEGIC METALS LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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VANCOUVER BC V6B 1L8

Finalized Date: 26-JUL-2014
Account: MTT

Project: Hopper

CERTIFICATE OF ANALYSIS VA14108197

Sample Description	Method	WEI-21	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	ME-ICP06	OA-GRA05
	Analyte	Recvd Wt.	SiO2	Al2O3	Fe2O3	CaO	MgO	Na2O	K2O	Cr2O3	TiO2	MnO	P2O5	SrO	BaO	LOI
	Units	kg	%	%	%	%	%	%	%	%	%	%	%	%	%	%
	LOR	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Intrusive 1		0.40	67.6	15.45	3.57	3.65	1.75	4.19	3.26	0.01	0.37	0.06	0.13	0.07	0.20	1.44
Intrusive 2		1.04	53.5	18.10	8.36	6.78	4.21	4.05	2.71	<0.01	0.87	0.10	0.49	0.15	0.16	1.76
Intrusive 3		0.36	64.0	12.90	3.57	5.35	2.31	1.01	2.51	0.01	0.31	0.06	0.11	0.05	0.10	9.69
Intrusive 4		0.18	57.8	15.30	6.42	6.00	4.09	3.88	1.78	0.03	0.72	0.10	0.34	0.06	0.10	3.66

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 26-JUL-2014
Account: MTT

Project: Hopper

CERTIFICATE OF ANALYSIS VA14108197

Sample Description	Method Analyte Units LOR	TOT-ICP06 Total % 0.01
Intrusive 1		101.75
Intrusive 2		101.24
Intrusive 3		101.98
Intrusive 4		100.28

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Project: Hopper

Finalized Date: 26-JUL-2014
Account: MTT

CERTIFICATE OF ANALYSIS VA14108197

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
CRU-31	LOG-22	ME-ICP06	OA-GRA05
PUL-31	SPL-21	TOT-ICP06	WEI-21

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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 28-JUN-2014
Account: F

CERTIFICATE WH14092126

Project: HOPPER

This report is for 20 Rock samples submitted to our lab in Whitehorse, YT, Canada on 17-JUN-2014.

The following have access to data associated with this certificate:

HEATHER BURRELL	JOAN MARIACHER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
CRU-31	Fine crushing - 70% <2mm
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	51 anal. aqua regia ICPMS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
ATTN: JOAN MARIACHER
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016 - 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 28 - JUN - 2014
Account: F

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14092126

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
M898201		1.06	<0.001	0.05	0.90	3.5	<0.2	<10	40	0.22	0.18	1.28	0.08	14.10	2.1	5
M898202		1.29	0.002	0.05	1.10	1.7	<0.2	<10	40	0.22	0.22	3.88	0.02	10.90	2.8	6
M898203		4.64	0.698	0.71	0.25	5.6	0.6	<10	<10	<0.05	20.1	2.04	0.09	1.66	16.2	2
M898204		3.52	4.73	1.24	0.52	30.3	4.1	<10	20	0.17	94.9	0.71	0.14	5.23	16.4	52
M898205		1.32	0.026	0.06	1.73	2.9	<0.2	<10	40	0.18	0.77	1.32	0.21	8.39	11.7	111
M898206		2.06	0.874	0.72	0.23	3.8	0.8	<10	10	<0.05	13.50	1.15	0.06	1.46	7.0	12
M898207		1.85	1.830	1.33	0.14	5.8	1.5	<10	10	0.05	48.7	0.71	0.06	3.11	12.4	3
M898208		3.44	0.144	0.86	0.31	6.3	<0.2	<10	30	<0.05	7.08	1.92	0.06	22.4	10.3	3
M898209		2.40	0.020	0.18	0.56	2.4	<0.2	<10	50	0.06	0.70	1.09	0.09	9.09	4.7	2
M898210		1.70	0.544	1.58	0.02	26.4	0.5	10	10	<0.05	15.25	0.54	0.07	0.46	28.7	1
M898211		4.23	5.32	1.93	0.09	6.4	5.0	<10	20	0.08	73.9	0.87	0.27	0.46	37.9	2
M898212		2.79	0.036	0.28	0.48	7.2	<0.2	<10	40	0.17	1.14	1.08	0.14	7.04	10.4	3
M898213		1.56	0.015	0.15	1.65	14.3	<0.2	<10	90	0.36	0.91	1.76	0.24	15.35	9.0	43
M898214		3.04	0.006	0.06	1.29	1.6	<0.2	<10	80	0.34	0.22	1.04	0.10	24.6	5.0	20
M898215		1.75	0.043	0.10	1.62	2.2	<0.2	<10	170	0.47	0.96	0.56	0.08	22.0	11.5	97
M898216		2.99	0.048	0.04	1.51	1.2	<0.2	<10	50	0.20	1.10	1.26	0.07	9.68	7.1	63
M898217		4.85	1.630	1.31	0.28	6.6	1.4	<10	20	0.08	30.7	1.41	0.15	2.73	23.5	6
M898218		1.85	0.010	0.07	0.66	1.6	<0.2	<10	20	0.07	0.56	2.08	0.03	10.75	1.5	3
M898219		2.64	0.011	0.10	1.10	2.1	<0.2	<10	620	0.21	0.37	1.40	0.08	11.25	6.2	7
M898220		2.06	0.047	0.51	2.27	1.8	<0.2	<10	30	0.50	14.20	2.36	0.14	17.55	20.2	148

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 28-JUN-2014
Account: F

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14092126

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
M898201		0.77	29.0	0.84	4.16	0.16	0.19	<0.01	0.261	0.09	7.2	2.5	0.19	191	0.21	0.07
M898202		0.37	25.4	2.68	5.06	0.48	0.23	<0.01	0.213	0.06	6.4	3.7	0.27	827	2.06	0.05
M898203		0.19	757	3.98	2.56	0.63	0.02	<0.01	0.361	0.05	0.8	2.2	0.85	352	1.37	0.01
M898204		0.54	655	6.45	3.08	0.23	0.04	<0.01	0.062	0.07	2.9	4.5	0.42	246	4.47	0.01
M898205		0.50	248	1.69	6.19	0.15	0.43	<0.01	0.045	0.09	4.1	13.6	1.23	218	1.02	0.08
M898206		0.21	325	2.07	1.70	0.38	0.04	<0.01	0.198	0.03	0.8	1.8	0.48	227	1.17	0.01
M898207		0.15	601	4.31	1.12	0.34	<0.02	<0.01	0.108	0.03	2.4	1.5	0.50	196	2.70	0.01
M898208		0.46	510	7.97	4.98	0.64	0.07	<0.01	0.384	0.08	18.9	3.2	0.53	361	1.71	0.01
M898209		0.61	215	1.55	2.08	0.17	0.18	<0.01	0.068	0.12	5.9	7.8	0.85	308	3.16	0.03
M898210		0.14	1900	8.37	1.10	0.58	<0.02	<0.01	0.199	0.04	0.3	2.1	1.73	175	3.25	<0.01
M898211		0.20	2300	11.40	1.38	0.74	<0.02	<0.01	0.306	0.02	0.3	2.1	0.82	207	6.66	0.01
M898212		0.55	294	1.75	2.72	0.27	0.12	<0.01	0.098	0.06	3.9	3.3	0.44	274	1.58	0.06
M898213		0.90	265	1.84	5.91	0.10	0.26	<0.01	0.052	0.15	7.8	12.2	0.73	339	2.06	0.07
M898214		1.10	81.0	1.42	4.47	0.07	0.25	<0.01	0.028	0.23	14.1	13.2	0.76	340	0.56	0.06
M898215		2.83	235	2.19	6.93	0.06	0.11	<0.01	0.024	0.43	11.2	15.8	1.07	229	0.95	0.08
M898216		0.38	93.0	1.10	4.14	0.10	0.28	<0.01	0.020	0.09	4.7	12.7	0.87	222	0.36	0.10
M898217		0.28	1255	9.10	4.69	0.60	0.03	<0.01	0.477	0.03	1.3	3.3	0.92	361	1.03	0.01
M898218		0.37	54.1	1.35	2.47	0.23	0.18	<0.01	0.127	0.04	7.8	5.3	0.72	351	0.10	0.05
M898219		1.52	85.6	1.94	4.71	0.17	0.15	<0.01	0.040	0.19	4.8	4.9	0.38	386	0.57	0.12
M898220		0.20	436	6.45	9.05	0.15	0.63	0.01	0.177	0.28	8.5	11.5	1.37	377	1.14	0.12

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1016 - 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 28 - JUN - 2014
Account: F

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14092126

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
M898201		0.78	4.0	510	4.6	6.9	<0.001	0.02	0.49	1.6	0.7	4.4	42.9	0.01	0.06	1.2
M898202		0.92	6.1	740	5.6	5.3	0.001	0.01	0.31	3.7	0.6	6.6	12.4	0.01	0.05	1.3
M898203		0.08	3.6	540	3.5	0.9	0.001	0.93	0.60	0.3	2.9	4.4	3.1	<0.01	4.27	0.2
M898204		0.08	22.8	370	3.9	3.9	0.001	0.45	4.05	3.5	5.8	0.3	7.7	<0.01	8.62	1.6
M898205		0.18	27.5	590	2.1	4.9	<0.001	0.04	0.31	6.1	0.6	0.4	25.5	<0.01	0.12	2.3
M898206		0.11	4.2	480	2.9	1.9	<0.001	0.12	0.35	0.8	1.8	0.9	5.3	<0.01	2.35	0.3
M898207		0.07	2.4	240	3.5	1.1	<0.001	0.22	0.49	0.5	4.3	0.7	3.4	<0.01	8.29	<0.2
M898208		0.26	3.2	410	2.3	6.8	0.001	0.10	0.48	0.6	1.0	3.0	7.7	<0.01	1.12	0.4
M898209		0.37	3.9	510	3.6	11.8	<0.001	0.03	0.18	1.3	0.4	1.3	8.6	<0.01	0.16	0.8
M898210		<0.05	2.2	250	2.4	0.9	<0.001	1.19	1.88	0.3	8.6	0.4	3.4	<0.01	3.19	<0.2
M898211		<0.05	6.1	440	3.3	1.0	0.001	1.45	1.17	0.4	6.9	1.1	4.2	<0.01	10.90	<0.2
M898212		0.68	6.8	620	6.4	5.4	0.001	0.13	0.26	2.1	1.6	1.6	16.1	<0.01	0.35	1.3
M898213		0.35	29.2	500	6.1	11.2	<0.001	0.02	1.18	4.5	0.7	0.9	29.4	<0.01	0.32	2.8
M898214		0.35	13.5	470	5.3	16.9	<0.001	0.01	0.20	3.1	0.3	1.1	20.5	<0.01	0.06	2.9
M898215		0.68	43.5	410	3.5	38.1	0.001	0.03	0.24	6.1	0.5	0.5	30.7	<0.01	0.23	4.5
M898216		0.15	20.9	620	2.0	6.2	<0.001	0.04	0.24	3.9	0.4	0.4	47.6	<0.01	0.14	2.0
M898217		0.12	11.4	380	4.1	2.2	<0.001	1.34	0.68	0.5	4.3	3.1	5.3	<0.01	4.14	0.8
M898218		0.50	3.1	1080	3.0	4.4	<0.001	0.01	0.22	0.9	<0.2	2.3	14.7	<0.01	0.20	0.5
M898219		0.72	9.1	690	5.7	12.5	<0.001	0.07	0.35	5.3	0.8	1.2	87.6	<0.01	0.09	1.3
M898220		2.26	130.5	2550	10.9	3.9	<0.001	0.26	0.28	5.3	1.7	2.6	44.1	0.01	4.56	1.1

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Finalized Date: 28-JUN-2014
Account: F

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14092126

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
M898201		0.141	0.03	20.8	23	0.58	17.85	15	6.0
M898202		0.196	0.02	1.72	29	1.85	16.30	23	8.5
M898203		<0.005	0.03	2.05	4	118.0	7.07	20	1.0
M898204		0.005	0.03	0.56	32	39.6	3.40	23	1.3
M898205		0.147	0.02	0.55	51	1.49	4.84	20	14.8
M898206		0.018	0.03	0.42	8	21.1	1.51	15	1.7
M898207		0.006	0.04	0.57	4	67.2	1.25	16	0.6
M898208		0.052	0.06	1.14	13	71.5	4.21	19	2.3
M898209		0.111	0.05	1.29	15	5.61	7.26	23	5.2
M898210		<0.005	0.03	0.93	1	8.05	1.42	19	<0.5
M898211		<0.005	0.05	0.79	3	156.0	1.45	36	<0.5
M898212		0.135	0.03	2.91	19	11.80	10.75	27	3.4
M898213		0.103	0.07	1.26	42	12.30	9.44	25	11.3
M898214		0.129	0.09	1.13	23	4.49	9.23	25	8.1
M898215		0.142	0.22	0.76	63	2.01	6.94	19	4.2
M898216		0.104	0.03	0.69	30	6.34	4.38	13	10.9
M898217		0.014	0.04	1.22	11	16.80	2.89	26	1.1
M898218		0.111	0.03	1.64	6	2.75	5.29	14	5.6
M898219		0.200	0.08	0.83	46	0.73	12.90	24	4.3
M898220		0.380	0.05	0.48	73	6.28	5.44	40	25.5

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 28-JUN-2014
Account: F

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14092126

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	ME-MS41

ALS Canada Ltd.

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North Vancouver BC V7H 0A7
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To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 5-JUL-2014
Account: MTT

CERTIFICATE WH14095622

Project: HOPPER

This report is for 7 Rock samples submitted to our lab in Whitehorse, YT, Canada on 21-JUN-2014.

The following have access to data associated with this certificate:

HEATHER BURRELL	SARAH DRECHSLER	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
CRU-31	Fine crushing - 70% <2mm
PUL-QC	Pulverizing QC Test
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME-MS41	51 anal. aqua regia ICPMS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: **STRATEGIC METALS LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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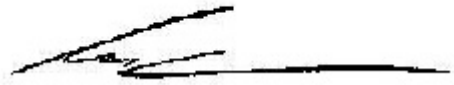
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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Finalized Date: 5-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14095622

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
M898221		1.54	0.039	2.50	0.29	6.5	<0.2	<10	20	0.44	0.47	11.05	0.74	12.65	11.7	13
M898222		1.36	0.010	6.75	0.82	0.8	<0.2	<10	330	0.15	6.71	0.40	0.11	19.25	9.2	30
M898223		1.14	<0.001	0.04	0.70	0.8	<0.2	<10	420	0.31	0.03	1.28	0.02	18.60	6.3	30
M898224		1.23	<0.001	0.04	0.67	0.4	<0.2	<10	50	0.44	0.06	3.77	0.05	26.3	7.4	17
M898225		0.87	<0.001	0.01	0.80	0.4	<0.2	<10	380	0.44	0.02	1.42	0.02	20.3	7.1	33
M898226		2.64	0.004	0.11	2.84	0.8	<0.2	<10	660	0.26	0.02	1.57	0.03	27.6	29.6	38
M898227		1.69	0.014	3.14	0.20	9.3	<0.2	<10	500	0.31	43.0	0.49	0.08	4.65	6.1	8

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
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Finalized Date: 5-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14095622

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
M898221		0.14	4500	11.10	16.15	2.47	0.05	0.09	1.370	0.01	4.3	1.5	0.17	1140	5.98	0.01
M898222		0.60	9980	2.66	4.55	0.06	0.14	0.13	0.109	0.23	10.3	10.4	0.63	166	94.2	0.06
M898223		1.95	48.5	1.66	3.61	0.05	0.28	0.01	0.014	0.11	9.3	8.0	0.65	211	2.53	0.06
M898224		0.75	103.0	1.83	1.77	<0.05	0.10	0.01	0.014	0.10	14.1	5.1	1.18	422	15.15	0.01
M898225		2.27	11.9	1.88	3.69	<0.05	0.32	0.01	0.014	0.13	10.4	8.7	0.70	226	3.36	0.06
M898226		3.94	346	5.88	9.67	0.09	0.09	0.01	0.011	0.96	13.0	18.6	1.60	338	28.9	0.42
M898227		0.75	9980	2.58	1.08	<0.05	0.02	0.03	0.119	0.13	3.4	0.6	0.03	219	30.0	0.01

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Finalized Date: 5-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14095622

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
M898221		0.08	4.1	170	2.2	0.9	0.001	0.05	0.23	0.8	1.3	25.8	2.6	<0.01	0.13	0.4
M898222		0.40	8.4	450	9.4	16.0	0.003	0.72	0.16	3.2	1.3	0.6	23.3	<0.01	0.60	6.9
M898223		0.13	13.0	540	2.3	5.6	<0.001	0.01	0.20	4.2	<0.2	0.3	101.5	<0.01	<0.01	5.5
M898224		<0.05	9.6	490	5.4	4.8	<0.001	<0.01	0.14	5.6	0.2	<0.2	344	<0.01	<0.01	5.9
M898225		0.08	15.1	580	2.4	7.1	<0.001	0.01	0.24	5.3	0.2	0.3	117.5	<0.01	<0.01	5.6
M898226		0.10	20.5	2120	2.4	58.6	0.007	0.21	0.06	4.2	0.5	0.4	355	<0.01	0.02	4.8
M898227		<0.05	5.0	270	53.7	6.5	0.002	0.05	11.50	1.9	0.9	0.2	17.5	<0.01	0.17	1.1

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 5-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14095622

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5
M898221		0.007	0.02	6.66	15	146.5	11.35	80	2.4
M898222		0.039	0.09	4.98	41	113.0	4.98	23	2.7
M898223		0.045	0.02	1.54	38	0.62	6.02	16	7.6
M898224		<0.005	0.02	1.21	38	0.56	8.73	17	2.9
M898225		0.029	0.03	1.42	41	0.73	6.47	18	8.9
M898226		0.308	0.30	1.71	240	0.85	5.85	50	2.2
M898227		<0.005	0.06	5.99	10	2.93	3.37	44	0.6

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Project: HOPPER

Finalized Date: 5-JUL-2014
Account: MTT

CERTIFICATE OF ANALYSIS WH14095622

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-22	PUL-31
PUL-QC	SPL-21	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	ME-MS41

ALS Canada Ltd.

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North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2014
Account: MTT

CERTIFICATE WH14099480

Project: HOPPER

This report is for 56 Rock samples submitted to our lab in Whitehorse, YT, Canada on 26-JUN-2014.

The following have access to data associated with this certificate:

HEATHER BURRELL	SARAH DRECHSLER	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

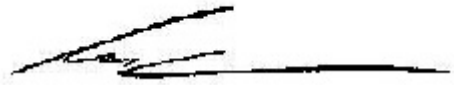
ALS CODE	DESCRIPTION	
ME-MS41	51 anal. aqua regia ICPMS	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	VARIABLE
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

To: **STRATEGIC METALS LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:



Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
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VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14099480

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
M898228		1.81	0.004	0.10	0.57	4.7	<0.2	<10	100	0.26	0.06	0.58	0.06	35.5	6.0	10
M898229		2.97	0.003	0.04	0.75	1.6	<0.2	<10	310	0.24	0.11	0.28	0.01	26.3	5.1	19
M898230		3.25	0.007	0.14	0.60	4.6	<0.2	<10	580	0.51	0.16	0.24	0.04	33.0	5.1	13
M898231		2.27	0.003	0.08	0.35	7.4	<0.2	70	90	0.22	0.22	0.49	<0.01	20.9	2.3	12
M898232		1.58	0.005	0.09	0.54	0.7	<0.2	<10	210	0.18	0.08	0.26	<0.01	23.3	5.3	15
M898233		2.15	0.006	0.09	0.71	2.8	<0.2	<10	750	0.31	0.11	0.27	0.01	28.2	6.1	17
M898234		5.49	0.024	1.02	0.48	12.1	<0.2	<10	620	0.58	1.15	0.30	0.01	29.8	8.0	9
M898235		2.78	0.002	0.07	1.05	0.7	<0.2	<10	580	0.24	0.06	0.54	0.02	18.90	10.2	81
M898236		3.56	0.548	1.45	0.52	2.2	0.5	30	50	0.33	1.74	0.39	0.05	13.60	25.5	20
M898237		5.90	6.31	8.35	1.63	6.3	5.3	20	100	0.55	33.4	1.02	0.20	15.65	40.2	20
M898238		5.05	1.380	3.53	0.14	5.3	1.3	10	60	0.40	11.15	2.04	0.19	2.66	18.8	9
M898239		2.90	0.014	0.05	1.11	1.8	<0.2	<10	20	0.11	0.31	5.82	0.02	9.68	3.6	21
M898240		1.90	0.012	0.04	2.32	1.4	<0.2	10	40	0.26	0.22	2.07	0.06	5.96	1.4	56
M898241		4.21	0.059	4.31	0.48	16.9	<0.2	<10	30	0.10	4.12	1.12	0.27	1.71	12.0	11
M898242		3.53	0.034	0.06	1.14	4.4	<0.2	<10	90	0.31	1.24	1.48	0.07	14.55	8.7	65
M898243		2.79	0.024	0.03	1.67	2.4	<0.2	<10	180	0.63	0.56	0.33	0.03	27.6	8.2	67
M898244		2.22	0.110	0.06	1.33	3.5	<0.2	<10	170	0.32	2.81	1.15	0.07	19.15	9.2	109
M898245		3.36	0.083	0.29	0.60	65.8	<0.2	<10	830	0.62	2.36	0.80	0.58	23.4	41.4	40
M898246		4.46	0.800	1.24	0.17	9.1	0.6	10	20	0.07	20.4	1.31	0.21	0.81	19.2	4
M898247		4.01	0.009	0.05	0.70	4.7	<0.2	<10	20	0.21	0.39	3.69	0.06	9.31	2.3	11
M898248		2.85	0.016	0.04	1.04	5.1	<0.2	<10	30	0.27	0.32	2.68	0.07	5.99	3.7	54
M898249		2.68	0.014	0.49	0.65	7.7	<0.2	<10	30	0.18	0.50	2.90	0.11	4.32	5.7	30
M898250		1.64	0.004	0.01	1.91	1.6	<0.2	<10	60	0.17	0.14	1.52	0.05	8.80	8.5	163
M898251		1.88	0.035	0.53	0.18	101.0	<0.2	<10	70	2.10	0.29	10.80	0.20	18.65	13.0	16
M898252		3.98	0.043	0.43	0.10	5.9	<0.2	<10	10	0.10	0.92	0.96	0.09	14.25	8.1	2
M898253		2.01	0.007	0.16	0.72	1.8	<0.2	<10	40	0.39	0.29	2.40	0.09	3.99	11.1	3
M898254		2.25	0.162	0.20	0.39	6.7	0.2	<10	10	0.16	7.61	4.55	0.10	5.57	14.4	4
M898255		1.33	0.004	0.06	2.74	0.7	<0.2	<10	80	0.66	0.14	1.65	0.22	69.7	15.9	3
M898256		2.49	0.712	4.28	0.06	10.2	1.0	20	10	0.08	19.35	0.83	0.27	0.67	30.3	2
M898257		1.81	0.412	0.39	0.44	5.0	0.3	30	20	0.14	5.97	14.40	0.41	10.50	13.1	2
M898258		1.73	0.007	0.13	2.46	0.6	<0.2	<10	140	0.74	0.10	2.92	0.50	69.9	25.4	3
M898259		1.27	0.021	0.23	1.34	6.2	<0.2	<10	120	0.54	1.51	0.16	0.23	27.7	17.5	72
M898260		2.81	0.729	3.02	0.04	12.2	0.6	<10	20	0.58	18.30	3.52	0.15	1.64	15.2	5
M898261		3.53	0.679	3.09	0.07	1.2	0.6	10	40	0.17	7.33	0.53	0.31	1.55	19.5	4
M898262		4.57	0.532	2.25	0.14	2.6	0.5	20	20	0.10	4.43	0.25	0.06	1.40	34.5	7
M898263		3.09	0.072	0.95	0.38	1.5	<0.2	<10	670	0.30	0.28	0.76	0.15	11.70	5.1	13
M898264		3.55	0.023	0.14	0.50	1.0	<0.2	<10	320	0.26	0.09	0.79	0.04	27.8	4.4	12
M898265		2.60	0.398	1.31	0.78	2.2	0.6	<10	410	0.41	0.64	0.35	0.12	19.10	9.8	26
M898266		2.22	0.332	1.31	0.28	17.6	0.3	<10	130	0.46	0.40	2.38	0.23	23.5	7.6	13
M898267		0.93	0.010	0.05	0.80	0.8	<0.2	<10	280	0.26	0.06	0.51	0.02	24.6	7.4	14

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14099480

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
M898228		1.40	83.8	1.93	3.19	0.06	0.16	0.01	0.009	0.21	17.6	6.6	0.47	138	1.78	0.09
M898229		1.20	104.0	1.81	3.78	0.06	0.09	<0.01	0.007	0.24	13.9	8.3	0.44	167	54.3	0.06
M898230		1.36	709	1.63	2.23	0.05	0.05	<0.01	0.013	0.16	15.3	4.8	0.21	179	111.5	0.02
M898231		0.39	140.5	0.71	0.81	<0.05	0.05	<0.01	0.013	0.04	9.3	2.4	0.03	134	8670	<0.01
M898232		1.22	181.0	1.62	2.84	0.06	0.14	<0.01	0.007	0.20	11.9	6.6	0.32	133	66.9	0.06
M898233		1.30	183.5	1.89	3.62	0.05	0.11	<0.01	0.008	0.23	15.2	7.0	0.37	173	26.1	0.05
M898234		1.91	2030	1.88	1.40	<0.05	0.05	0.02	0.034	0.16	16.2	2.4	0.14	285	242	0.01
M898235		0.99	113.0	2.03	4.65	0.07	0.39	<0.01	0.008	0.22	8.6	11.8	0.92	200	3.57	0.09
M898236		2.42	1985	18.30	10.10	0.66	0.08	<0.01	0.277	0.24	6.6	8.1	5.30	649	4.71	0.02
M898237		9.68	>10000	14.85	8.80	0.70	0.30	0.01	0.526	0.86	8.1	29.5	7.58	1040	8.50	0.05
M898238		1.05	9930	15.85	9.51	0.57	0.04	<0.01	0.560	0.06	1.3	11.3	3.44	863	3.85	0.01
M898239		0.25	77.8	4.90	6.38	0.73	0.23	<0.01	0.348	0.03	6.2	3.0	0.50	1070	1.07	0.01
M898240		0.77	38.1	0.46	4.55	0.08	0.33	<0.01	0.009	0.11	2.6	9.7	0.43	119	0.42	0.20
M898241		0.29	2470	2.34	1.89	0.12	0.04	0.01	0.259	0.05	1.0	3.6	0.68	172	3.78	0.06
M898242		0.84	129.0	1.41	4.19	0.05	0.12	<0.01	0.017	0.14	6.5	10.3	0.60	243	7.00	0.11
M898243		4.19	76.9	2.35	7.99	0.08	0.04	<0.01	0.012	0.78	13.9	15.1	0.88	233	3.67	0.05
M898244		2.08	108.5	2.01	7.29	0.07	0.15	<0.01	0.026	0.39	10.0	11.1	0.84	351	2.42	0.04
M898245		1.34	1840	2.37	3.50	0.05	0.05	<0.01	0.052	0.19	11.3	5.1	0.48	499	5.83	0.02
M898246		0.39	1280	8.64	4.51	0.70	0.05	<0.01	0.228	0.03	0.5	3.0	1.84	416	3.13	<0.01
M898247		0.31	35.4	2.66	3.79	0.41	0.19	<0.01	0.232	0.04	5.4	3.1	0.29	722	1.08	0.03
M898248		0.67	13.6	1.43	2.56	0.05	0.16	<0.01	0.044	0.05	3.0	6.7	0.83	463	0.69	0.13
M898249		0.43	307	2.91	3.67	0.37	0.18	<0.01	0.189	0.04	2.5	3.8	0.41	675	0.41	0.01
M898250		0.52	15.3	1.43	5.21	0.10	0.31	<0.01	0.012	0.11	4.4	21.8	1.25	254	0.35	0.16
M898251		0.43	195.5	6.20	0.91	0.06	0.05	<0.01	0.298	0.04	13.7	2.0	2.37	2340	1.05	0.01
M898252		0.13	351	2.84	1.10	0.22	0.02	<0.01	0.100	0.02	10.0	1.3	0.39	410	0.52	0.01
M898253		0.30	199.0	2.15	4.73	0.46	0.21	<0.01	0.179	0.09	1.5	4.2	0.30	725	21.3	0.03
M898254		0.15	343	6.39	6.41	1.05	0.13	<0.01	0.623	0.01	3.3	1.9	0.40	799	1.89	0.01
M898255		1.33	83.8	5.79	13.70	0.28	1.09	<0.01	0.073	0.13	31.7	35.8	2.39	1320	1.47	0.05
M898256		0.19	1260	15.95	6.91	1.05	<0.02	<0.01	0.358	0.03	0.4	5.5	2.67	495	0.83	0.01
M898257		0.58	818	5.36	3.74	0.22	0.03	<0.01	0.242	0.05	5.6	6.5	5.37	590	0.39	0.02
M898258		2.27	904	5.70	9.76	0.12	0.19	0.02	0.066	0.12	31.0	19.3	1.22	939	1.65	0.14
M898259		2.72	627	2.75	8.17	0.07	<0.02	<0.01	0.021	0.36	12.8	9.0	0.85	355	1.06	0.02
M898260		0.26	3290	6.99	4.15	0.27	0.03	0.01	0.272	0.01	1.0	9.1	4.22	684	2.50	0.01
M898261		0.33	3880	10.85	6.72	0.68	0.03	<0.01	0.320	0.02	0.8	11.8	4.59	1000	46.2	0.01
M898262		0.90	4210	27.0	13.40	0.73	0.03	<0.01	0.290	0.06	0.8	7.5	4.00	1240	114.0	0.01
M898263		0.61	1815	2.11	3.07	0.08	0.10	<0.01	0.050	0.08	5.8	4.1	0.25	171	18.10	0.04
M898264		0.71	258	1.38	2.32	0.07	0.21	0.01	0.026	0.09	14.8	6.2	0.27	165	5.63	0.03
M898265		3.57	4550	1.67	8.81	0.08	0.04	<0.01	0.058	0.46	9.6	8.5	0.80	103	5.44	0.02
M898266		1.81	5440	2.27	2.35	0.06	0.02	<0.01	0.069	0.11	11.8	3.5	0.89	278	5.36	0.01
M898267		0.96	119.0	2.63	4.61	0.07	0.24	<0.01	0.011	0.17	12.8	13.5	0.61	167	8.22	0.08

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

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CERTIFICATE OF ANALYSIS WH14099480

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
M898228		0.44	4.9	1090	7.6	15.3	<0.001	0.05	0.25	2.4	0.4	0.7	38.8	<0.01	0.01	15.6
M898229		0.70	4.6	490	3.1	20.9	0.003	<0.01	0.12	2.5	0.5	0.5	26.2	<0.01	<0.01	12.9
M898230		0.35	4.7	480	3.9	13.5	0.012	0.02	0.47	4.2	0.4	0.2	26.7	<0.01	<0.01	16.0
M898231		<0.05	3.8	310	3.9	2.5	3.04	0.57	0.51	3.3	5.0	<0.2	9.4	<0.01	0.13	7.0
M898232		0.50	4.5	520	2.5	16.8	0.010	0.01	0.08	2.1	0.4	0.4	22.4	<0.01	<0.01	12.5
M898233		0.69	5.1	470	3.3	20.1	0.003	0.03	0.22	2.4	0.3	0.4	31.4	<0.01	<0.01	15.0
M898234		0.14	5.9	420	7.3	9.4	0.052	0.04	0.98	4.9	1.2	0.2	23.1	<0.01	0.08	15.5
M898235		0.20	30.6	590	1.9	14.6	<0.001	0.03	0.08	3.3	0.2	0.4	38.8	<0.01	<0.01	6.0
M898236		0.14	18.8	330	1.2	33.9	<0.001	0.06	0.11	0.8	4.7	2.8	8.6	<0.01	1.15	2.7
M898237		0.16	14.4	1520	0.8	142.5	0.002	0.58	0.27	10.7	12.7	5.8	19.0	<0.01	8.34	1.0
M898238		<0.05	7.2	220	0.6	9.5	<0.001	0.42	0.54	0.4	12.3	2.6	105.5	<0.01	4.42	0.4
M898239		0.36	7.0	350	2.6	2.9	0.001	<0.01	0.11	1.8	0.3	8.8	6.1	0.01	0.08	0.9
M898240		0.21	10.0	540	4.3	7.3	<0.001	<0.01	0.18	2.0	<0.2	0.4	128.5	<0.01	0.03	1.3
M898241		0.06	14.0	240	5.2	1.4	0.001	0.27	0.81	0.4	2.7	0.2	31.3	<0.01	1.66	0.3
M898242		0.62	24.6	380	4.2	9.1	0.001	0.04	0.30	3.3	0.4	0.6	62.1	<0.01	0.39	3.1
M898243		0.90	29.1	640	2.7	64.0	0.001	0.04	0.14	6.1	1.0	0.4	19.4	<0.01	0.16	5.6
M898244		0.71	26.2	350	4.6	30.4	0.002	0.07	0.16	5.4	1.4	1.0	24.8	<0.01	0.98	4.8
M898245		0.59	33.3	520	3.2	14.2	0.001	0.08	0.75	3.4	0.9	0.3	41.5	<0.01	0.48	4.0
M898246		0.07	4.2	210	2.4	1.8	0.001	0.20	0.84	0.4	2.3	3.8	7.8	<0.01	3.87	0.2
M898247		0.61	6.6	500	3.6	3.4	<0.001	<0.01	0.23	1.7	0.3	2.9	15.4	0.01	0.04	1.6
M898248		0.25	19.7	370	3.1	4.1	<0.001	<0.01	0.27	1.7	0.3	0.4	101.0	<0.01	0.05	0.9
M898249		0.69	18.9	330	5.3	3.9	<0.001	0.01	0.30	1.6	0.7	3.3	13.4	0.01	0.16	0.7
M898250		0.11	49.4	530	2.5	6.0	<0.001	<0.01	0.15	4.5	0.2	0.3	57.6	<0.01	0.02	2.2
M898251		0.07	24.9	360	4.5	2.5	0.002	0.13	2.84	3.2	0.9	1.2	397	<0.01	0.07	0.6
M898252		<0.05	4.3	430	2.6	1.2	<0.001	0.02	0.38	0.4	0.5	0.6	4.6	<0.01	0.44	0.5
M898253		0.72	7.6	640	5.7	5.5	0.003	<0.01	0.34	3.4	0.2	3.3	15.7	<0.01	0.07	1.2
M898254		0.23	6.7	670	2.6	0.6	<0.001	<0.01	0.38	1.7	0.5	7.8	6.0	<0.01	3.01	0.9
M898255		0.55	2.3	2090	6.5	4.6	<0.001	0.07	0.10	14.3	0.9	1.6	37.8	0.01	0.02	2.9
M898256		<0.05	3.7	130	7.1	0.9	<0.001	0.09	0.95	0.2	4.3	3.4	4.3	<0.01	4.15	<0.2
M898257		0.06	4.6	510	1.7	3.3	<0.001	0.04	0.27	2.2	0.9	2.7	98.2	<0.01	1.56	0.5
M898258		0.06	2.5	2250	3.6	7.1	<0.001	0.12	0.15	12.4	0.6	1.0	175.5	<0.01	0.01	2.9
M898259		0.24	49.7	160	2.3	29.7	<0.001	0.05	0.32	6.0	1.3	0.3	8.3	<0.01	0.56	4.3
M898260		<0.05	3.7	240	1.2	1.0	0.001	0.17	11.70	0.4	5.1	0.9	220	<0.01	2.03	0.2
M898261		<0.05	4.7	170	1.5	2.1	0.021	0.19	0.14	0.3	3.5	1.3	5.7	<0.01	0.75	<0.2
M898262		<0.05	12.2	190	2.5	8.3	0.024	0.09	0.19	0.2	4.1	2.5	12.1	<0.01	0.94	0.3
M898263		0.27	11.7	670	2.3	4.4	0.008	0.10	0.22	4.3	1.0	1.0	28.0	<0.01	0.08	1.4
M898264		0.21	7.5	580	3.4	4.9	<0.001	0.03	0.18	3.7	0.6	0.4	26.6	<0.01	0.03	8.2
M898265		0.66	43.5	620	3.4	59.5	0.001	0.15	0.42	3.6	4.2	0.7	21.3	<0.01	0.87	6.4
M898266		0.37	22.2	600	4.6	8.9	0.001	0.41	1.73	3.4	5.4	0.6	85.8	<0.01	0.50	6.0
M898267		0.30	6.7	870	2.3	12.3	0.001	0.02	0.12	3.6	0.4	0.4	37.0	<0.01	0.02	6.0

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Cu
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
M898228		0.144	0.07	3.55	82	2.09	6.74	17	2.8	
M898229		0.107	0.11	1.92	58	8.34	5.12	11	1.5	
M898230		0.029	0.08	3.86	37	34.0	5.70	10	1.3	
M898231		<0.005	0.03	1.07	11	1.39	5.36	7	1.9	
M898232		0.086	0.09	1.85	47	9.39	4.56	9	3.8	
M898233		0.095	0.10	2.00	54	37.8	5.17	10	2.0	
M898234		0.005	0.11	3.28	19	7.49	8.05	11	1.6	
M898235		0.126	0.08	1.19	57	1.77	4.71	18	14.5	
M898236		0.039	0.11	2.52	34	1.91	4.46	36	1.8	
M898237		0.262	0.38	5.84	89	17.70	11.90	55	10.3	1.180
M898238		0.009	0.05	1.54	16	2.72	3.03	30	1.2	
M898239		0.063	<0.02	2.35	27	10.45	22.6	11	9.9	
M898240		0.107	0.03	0.59	18	9.24	4.64	8	11.8	
M898241		0.014	0.03	0.57	6	8.08	1.21	29	1.6	
M898242		0.083	0.06	0.89	53	0.55	7.49	13	4.3	
M898243		0.136	0.37	1.13	87	0.49	6.36	16	1.4	
M898244		0.126	0.20	1.19	90	58.6	7.03	19	3.9	
M898245		0.044	0.10	1.28	46	2.89	9.06	45	1.8	
M898246		0.009	0.09	2.54	3	290	1.87	30	1.7	
M898247		0.093	0.02	2.49	18	52.0	10.45	14	5.7	
M898248		0.070	0.02	0.76	17	2.18	4.59	14	5.8	
M898249		0.061	0.02	2.08	19	2.79	11.15	22	7.1	
M898250		0.134	0.03	0.58	46	0.62	4.09	18	10.7	
M898251		0.005	0.03	1.48	17	0.67	13.55	62	2.4	
M898252		0.008	<0.02	0.54	5	0.61	1.42	20	0.7	
M898253		0.150	0.02	1.54	29	2.30	8.67	20	7.2	
M898254		0.034	0.02	7.56	15	55.7	8.13	15	4.9	
M898255		0.556	0.02	0.78	116	2.24	26.0	102	28.3	
M898256		<0.005	0.12	1.33	3	60.8	0.94	38	<0.5	
M898257		0.013	0.03	0.76	15	3.97	8.21	50	1.2	
M898258		0.028	0.06	0.64	91	0.06	27.3	128	5.3	
M898259		0.051	0.20	0.64	94	2.28	4.94	34	0.5	
M898260		<0.005	<0.02	0.59	8	1.58	2.50	33	1.0	
M898261		<0.005	0.02	0.69	20	9.32	1.81	82	1.1	
M898262		0.008	0.04	1.65	56	3.79	1.53	51	0.9	
M898263		0.087	0.02	1.46	47	30.1	9.64	23	2.1	
M898264		0.035	0.02	1.57	32	8.92	7.78	14	6.1	
M898265		0.052	0.18	1.20	47	1.64	6.57	17	0.9	
M898266		0.011	0.05	0.71	20	0.98	9.55	25	0.7	
M898267		0.088	0.05	1.28	72	6.28	6.20	11	6.3	

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
M898268		2.84	0.344	1.70	0.76	1.6	0.3	<10	100	0.32	0.50	0.40	0.05	27.1	5.1	28
M898269		2.81	0.241	0.94	1.00	0.9	<0.2	<10	290	0.47	0.19	0.38	0.05	27.2	5.8	38
M898270		3.85	0.594	1.02	0.38	1.5	0.3	30	70	0.21	1.77	0.36	0.08	7.04	24.7	18
M898271		3.74	3.61	4.27	0.28	4.5	1.5	50	30	0.15	30.0	0.30	0.09	3.30	32.0	19
M898272		2.68	0.510	3.44	0.06	5.2	9.9	20	10	0.13	3.52	0.49	0.17	2.54	24.5	5
M898273		4.28	0.647	1.59	0.23	3.2	0.5	30	20	0.11	8.15	0.18	0.09	4.07	41.6	11
M898274		5.36	1.135	3.49	0.11	1.7	4.3	50	10	0.10	7.85	0.04	0.03	0.65	44.8	6
M898275		4.75	0.759	4.50	0.20	1.7	0.7	10	20	0.11	9.45	0.28	0.09	2.92	24.3	7
M898276		2.46	0.228	0.99	0.27	1.0	0.2	<10	60	0.19	0.56	0.33	0.08	11.30	4.7	15
M898277		2.34	0.049	0.40	0.40	0.7	<0.2	<10	230	0.15	0.16	0.32	0.05	14.80	3.7	14
M898278		2.24	0.028	1.27	0.63	0.4	<0.2	<10	120	0.15	0.12	0.33	0.07	21.7	7.9	17
M898279		1.61	0.001	0.04	0.74	0.9	<0.2	<10	210	0.23	0.16	0.90	0.04	29.5	7.3	15
M898280		0.62	0.001	0.18	0.33	1.6	<0.2	<10	10	0.07	0.10	1.17	0.03	0.66	4.2	3
M898281		2.96	0.055	0.80	0.22	2.1	<0.2	<10	10	0.09	2.23	1.45	0.02	3.95	4.9	8
M898282		1.16	0.006	1.13	0.02	0.7	<0.2	<10	10	0.09	0.25	0.65	0.03	1.12	1.5	1
M898283		1.45	0.013	1.60	0.19	5.8	<0.2	<10	10	<0.05	2.33	1.20	0.06	4.13	13.4	6

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14099480

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
M898268		1.23	2760	1.27	4.34	0.07	0.04	<0.01	0.049	0.19	14.4	7.1	0.41	98	10.90	0.04
M898269		1.77	2540	1.33	5.37	0.06	0.03	<0.01	0.024	0.29	14.2	12.8	0.56	118	10.80	0.04
M898270		1.86	2690	19.05	14.75	0.66	0.09	<0.01	0.377	0.15	3.8	9.7	5.15	839	7.19	0.02
M898271		3.01	5310	18.35	7.55	1.25	0.05	<0.01	0.947	0.22	1.7	4.3	10.25	1220	3.52	0.01
M898272		0.33	5050	10.40	4.87	0.93	0.02	<0.01	0.327	0.02	1.1	4.2	5.56	858	0.79	0.01
M898273		0.51	3340	18.60	5.71	0.55	0.04	<0.01	0.371	0.04	2.2	2.1	7.71	1040	5.47	0.01
M898274		0.35	2780	15.20	3.63	0.62	0.04	<0.01	0.671	0.03	0.4	0.9	13.75	1230	8.11	0.01
M898275		0.61	4670	18.75	12.30	0.55	0.03	<0.01	0.328	0.05	1.7	4.1	3.09	649	22.8	0.02
M898276		0.41	2300	3.43	4.24	0.11	0.08	<0.01	0.043	0.08	6.2	2.2	0.17	105	7.23	0.04
M898277		0.43	914	1.52	2.88	0.08	0.07	<0.01	0.024	0.12	7.6	4.7	0.30	122	1.91	0.04
M898278		0.51	2110	1.74	3.46	0.08	0.10	<0.01	0.030	0.27	12.9	8.1	0.50	122	19.30	0.06
M898279		0.96	27.3	1.86	3.78	0.07	0.36	<0.01	0.013	0.14	15.4	5.3	0.55	185	1.92	0.07
M898280		0.27	38.9	1.02	1.78	0.13	<0.02	<0.01	0.013	0.03	0.4	5.1	1.16	130	0.61	0.01
M898281		0.31	255	10.35	3.35	0.25	0.05	<0.01	0.180	0.03	2.4	0.6	0.11	285	3.78	0.02
M898282		0.26	226	2.45	0.24	0.06	<0.02	<0.01	0.031	0.01	0.6	0.6	0.33	90	0.21	0.02
M898283		0.37	866	4.42	1.44	0.17	0.07	<0.01	0.084	<0.01	2.6	0.8	0.12	290	4.05	0.01

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To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14099480

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
M898268		0.37	19.5	520	3.5	21.1	0.001	0.04	0.57	3.0	1.7	0.5	18.2	<0.01	0.35	7.1
M898269		0.34	19.9	500	3.6	29.1	0.001	0.09	0.14	3.7	0.8	0.5	22.6	<0.01	0.19	7.1
M898270		0.05	13.2	330	1.2	22.0	0.001	0.16	0.10	0.6	3.5	2.1	7.0	<0.01	0.80	2.1
M898271		<0.05	11.6	810	1.4	33.5	<0.001	0.13	0.11	0.9	6.0	3.6	2.1	<0.01	3.46	0.5
M898272		<0.05	6.3	270	0.8	3.3	<0.001	0.43	0.13	0.3	3.7	1.7	1.6	<0.01	0.71	0.2
M898273		<0.05	16.7	220	2.5	5.3	0.001	0.14	0.10	0.9	2.0	2.3	6.4	<0.01	0.80	1.0
M898274		<0.05	9.6	80	1.7	4.4	<0.001	0.05	0.08	0.6	1.3	1.8	1.5	<0.01	1.00	<0.2
M898275		0.07	16.2	260	2.1	4.5	0.005	0.17	0.12	0.6	9.7	2.4	4.4	<0.01	2.37	0.6
M898276		0.35	16.5	580	3.1	3.7	0.001	0.03	0.10	1.8	1.4	0.7	12.0	<0.01	0.18	4.1
M898277		0.54	9.0	410	2.7	7.4	<0.001	0.01	0.11	2.9	0.8	0.7	14.8	<0.01	0.07	2.2
M898278		0.55	4.1	510	1.9	20.2	0.001	0.25	0.07	1.9	1.4	0.5	26.7	<0.01	0.03	13.1
M898279		0.24	4.7	590	4.7	7.1	<0.001	0.32	0.14	3.5	0.3	0.3	53.6	<0.01	0.01	9.0
M898280		<0.05	19.0	560	2.7	1.4	<0.001	0.02	0.23	0.1	0.3	<0.2	6.0	<0.01	0.04	<0.2
M898281		0.43	5.3	300	4.4	1.2	0.003	0.67	0.49	0.5	5.5	1.7	4.3	<0.01	2.84	0.5
M898282		0.05	1.7	60	1.7	0.6	0.001	0.21	0.18	0.1	0.9	<0.2	2.4	<0.01	0.11	0.3
M898283		0.47	11.7	540	3.4	0.5	0.002	2.62	0.26	0.3	4.1	1.1	3.9	<0.01	0.66	0.3

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 16-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14099480

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Cu
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
M898268		0.060	0.08	2.04	35	2.09	6.24	14	1.0	
M898269		0.062	0.12	1.48	43	2.45	5.90	18	0.8	
M898270		0.027	0.08	3.48	35	3.17	3.33	43	2.3	
M898271		0.015	0.10	6.46	16	2.35	3.16	54	1.5	
M898272		0.006	0.02	0.97	6	1.91	1.70	42	0.7	
M898273		0.017	0.04	0.74	16	1.85	2.27	51	1.4	
M898274		0.007	0.02	0.58	9	2.13	2.18	42	1.3	
M898275		0.021	0.02	0.97	36	4.06	2.34	37	0.8	
M898276		0.081	0.02	2.01	58	17.35	7.06	17	1.6	
M898277		0.110	0.03	0.98	41	3.91	9.32	17	1.6	
M898278		0.121	0.09	2.54	47	13.95	4.07	15	1.8	
M898279		0.069	0.03	1.90	38	0.44	6.11	16	10.7	
M898280		<0.005	0.02	0.10	2	0.11	0.53	11	<0.5	
M898281		0.038	0.04	0.38	15	1.15	4.25	9	1.5	
M898282		<0.005	<0.02	<0.05	2	0.05	0.75	5	<0.5	
M898283		0.032	0.08	0.59	10	14.35	7.25	8	1.5	

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Finalized Date: 16-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14099480

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-21	SPL-21
WEI-21			

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Cu-OG46	ME-MS41	ME-OG46
PUL-31	PUL-QC		

ALS Canada Ltd.

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To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-JUL-2014
Account: MTT

CERTIFICATE WH14103094

Project: HOPPER

This report is for 27 Rock samples submitted to our lab in Whitehorse, YT, Canada on 4-JUL-2014.

The following have access to data associated with this certificate:

HEATHER BURRELL	SARAH DRECHSLER	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

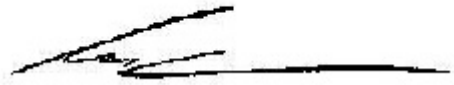
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	VARIABLE
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	51 anal. aqua regia ICPMS	

To: **STRATEGIC METALS LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
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To: **STRATEGIC METALS LTD.**
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VANCOUVER BC V6B 1L8

Finalized Date: 22-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14103094

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOR	0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
M898290		1.63	0.003	0.13	1.16	0.9	<0.2	<10	250	0.25	0.08	0.79	0.07	31.1	12.7	15
M898291		1.61	0.508	16.75	0.70	621	0.5	10	20	0.20	0.72	0.05	1.32	2.46	25.8	15
M898292		1.10	0.002	0.07	0.09	2.2	<0.2	<10	30	<0.05	0.01	12.40	0.19	2.24	0.5	5
M898293		1.62	0.002	1.23	0.17	3.3	<0.2	<10	590	0.11	0.02	0.27	0.03	2.28	2.1	15
M898294		2.58	0.008	0.54	1.35	10.3	<0.2	<10	1030	1.06	0.15	5.49	0.13	32.6	23.8	27
M898295		2.60	0.003	0.21	3.49	2.4	<0.2	<10	1680	0.30	0.13	4.95	0.11	3.91	65.1	90
M898296		1.85	0.014	2.55	0.66	26.1	<0.2	<10	510	0.59	3.02	6.11	0.22	8.68	28.2	33
M898297		2.21	0.018	1.26	0.79	1.5	<0.2	<10	470	0.20	0.35	1.14	0.15	9.01	30.1	50
M898298		3.24	0.034	3.64	1.07	46.3	<0.2	<10	240	1.69	0.96	8.57	0.67	12.60	70.5	94
M898299		1.96	0.009	1.24	1.59	42.7	<0.2	<10	70	1.42	0.23	6.50	0.26	28.7	48.8	83
M896201		4.09	0.042	1.38	0.98	23.2	<0.2	<10	240	0.66	0.58	3.93	0.21	13.80	39.3	117
M896202		4.57	0.179	3.82	0.62	8.3	0.2	<10	110	0.57	0.28	2.98	0.38	7.70	48.9	112
M896203		4.10	0.115	2.01	0.68	16.5	0.2	<10	80	0.91	0.29	5.55	0.32	16.60	37.8	115
M896204		4.17	0.169	1.18	0.71	7.3	<0.2	<10	110	0.42	0.14	2.19	0.22	13.20	27.3	82
M896205		3.68	0.029	0.99	0.62	9.8	<0.2	<10	90	0.53	0.16	3.62	0.20	10.60	26.1	94
M896206		4.69	0.013	0.43	0.70	19.4	<0.2	<10	110	0.67	0.07	5.08	0.10	12.45	24.0	81
M896207		5.03	0.012	0.47	0.71	35.4	<0.2	<10	60	0.81	0.09	5.53	0.14	15.30	33.0	98
M896208		4.11	0.010	0.55	0.73	43.8	<0.2	<10	60	1.34	0.14	9.27	0.23	21.0	39.2	166
M896209		3.95	0.089	2.52	0.70	5.5	<0.2	<10	90	0.25	0.27	1.42	0.30	10.40	31.7	76
M896210		2.03	0.003	0.14	1.34	0.8	<0.2	<10	400	0.22	0.07	0.97	0.02	20.1	9.1	53
M896211		0.97	0.006	0.19	1.06	1.4	<0.2	<10	530	0.25	0.32	0.80	0.06	19.95	10.0	38
M898284		1.12	0.008	2.27	1.98	11.9	<0.2	<10	390	0.62	3.88	8.65	1.13	7.52	67.2	152
M898285		1.04	0.009	2.35	0.06	10.4	<0.2	<10	10	1.10	1.93	6.15	1.15	0.27	43.4	2
M898286		1.44	0.100	15.50	0.04	1.1	<0.2	<10	20	0.76	3.00	1.03	1.86	0.35	25.6	2
M898287		1.79	0.279	16.75	0.22	1.3	<0.2	<10	20	0.32	7.67	9.41	0.69	6.10	25.0	6
M898288		1.41	0.025	0.39	0.22	83.3	<0.2	<10	30	0.92	0.54	7.91	0.22	5.66	5.2	8
M898289		0.62	0.024	22.8	0.10	17.3	<0.2	<10	<10	0.07	75.1	>25.0	5.07	32.0	27.7	<1

***** See Appendix Page for comments regarding this certificate *****

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VANCOUVER BC V6B 1L8

Finalized Date: 22-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14103094

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOR	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
M898290		1.24	108.5	3.43	5.80	0.09	0.16	<0.01	0.014	0.56	16.0	12.4	0.86	356	3.10	0.18
M898291		0.62	>10000	5.98	2.30	0.06	0.03	<0.01	0.621	0.06	1.2	6.4	0.29	64	966	<0.01
M898292		0.23	54.3	0.15	0.34	<0.05	<0.02	<0.01	<0.005	0.06	2.8	3.1	0.30	72	4.32	<0.01
M898293		0.26	3030	1.29	0.51	<0.05	0.02	<0.01	0.008	0.10	1.2	1.1	0.09	130	1.65	<0.01
M898294		2.23	1115	4.27	3.72	<0.05	0.06	0.02	0.041	0.38	16.6	9.2	2.28	809	74.6	0.02
M898295		6.34	425	6.86	8.33	0.11	0.08	<0.01	0.029	2.72	1.5	22.3	6.56	904	8.04	0.04
M898296		2.62	4230	5.18	2.81	<0.05	0.06	0.01	0.075	0.30	4.4	3.6	2.69	764	210	0.01
M898297		0.84	3230	3.32	3.50	0.10	0.17	0.01	0.027	0.22	4.0	7.3	1.26	300	294	0.07
M898298		2.77	7380	7.46	3.12	0.05	0.06	0.11	0.098	0.16	5.4	10.4	3.10	1120	111.5	0.02
M898299		2.41	2750	5.73	4.37	0.05	0.04	0.03	0.067	0.24	13.1	17.1	2.38	1080	55.6	0.05
M896201		0.71	4200	4.43	3.69	0.08	0.10	<0.01	0.049	0.27	6.8	10.0	2.24	668	52.4	0.05
M896202		1.22	8410	4.74	2.47	0.09	0.09	0.03	0.090	0.16	3.4	5.4	1.56	532	53.5	0.04
M896203		1.49	5360	4.81	3.06	0.06	0.11	0.01	0.068	0.13	7.6	5.4	2.32	800	52.8	0.03
M896204		0.71	2730	2.82	3.13	0.09	0.09	<0.01	0.035	0.15	6.9	6.4	1.47	366	50.0	0.04
M896205		0.61	2510	3.37	2.79	0.07	0.08	0.02	0.038	0.12	4.8	4.9	1.71	571	11.85	0.04
M896206		1.02	877	3.88	2.77	0.07	0.09	<0.01	0.024	0.17	5.8	5.2	2.20	588	21.4	0.04
M896207		0.97	916	3.92	2.60	<0.05	0.09	0.07	0.036	0.12	7.3	6.2	2.21	669	7.22	0.02
M896208		1.44	1290	5.91	2.98	<0.05	0.07	0.04	0.062	0.10	9.6	6.5	3.11	1210	42.2	0.02
M896209		0.62	3280	2.91	3.05	0.09	0.11	<0.01	0.060	0.15	5.3	6.2	1.33	261	3.83	0.05
M896210		0.60	500	2.60	5.89	0.06	0.14	<0.01	0.014	0.43	10.3	13.4	0.88	272	34.5	0.16
M896211		1.38	1870	2.44	5.00	0.05	0.16	<0.01	0.038	0.46	10.3	10.8	0.88	296	7.62	0.14
M898284		2.37	1490	5.66	5.96	0.07	0.08	0.01	0.084	1.19	3.4	26.1	3.67	1030	0.72	0.03
M898285		0.56	2010	3.49	0.68	0.11	<0.02	<0.01	0.171	0.01	0.2	2.7	1.75	708	0.93	0.01
M898286		0.19	6930	2.38	0.46	0.12	<0.02	0.01	0.575	0.01	0.3	6.7	1.02	314	27.8	0.02
M898287		0.19	8000	2.98	1.25	0.10	0.04	0.01	0.672	0.03	3.5	2.2	1.27	517	3.54	0.01
M898288		0.39	148.5	8.17	1.34	0.07	0.03	0.03	0.205	0.02	3.2	1.5	0.44	3290	23.9	0.01
M898289		<0.05	7800	2.13	0.63	0.08	0.03	0.01	0.788	<0.01	12.6	1.5	0.19	3320	0.85	0.01

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14103094

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
M898290		0.39	6.7	1020	4.6	38.0	<0.001	0.04	0.10	4.1	0.4	0.6	62.8	<0.01	<0.01	11.4
M898291		<0.05	12.1	130	7.7	3.4	0.010	4.18	1.54	1.9	16.5	1.7	5.7	<0.01	0.48	0.5
M898292		0.07	3.2	100	1.3	3.7	0.001	0.03	<0.05	0.3	0.3	<0.2	127.5	<0.01	<0.01	0.2
M898293		<0.05	2.6	60	1.8	4.1	<0.001	0.34	9.81	0.8	0.8	<0.2	35.6	<0.01	<0.01	1.0
M898294		0.08	18.1	1300	3.7	20.5	0.003	0.21	1.27	19.1	1.3	0.2	263	<0.01	0.01	4.1
M898295		0.05	23.4	370	0.6	154.0	<0.001	0.16	0.24	32.8	0.6	0.4	272	<0.01	0.01	0.2
M898296		0.08	22.8	430	11.2	27.0	0.007	0.28	14.80	21.4	1.1	0.3	306	<0.01	0.07	1.1
M898297		0.26	42.7	430	1.4	12.7	0.013	0.28	0.21	8.5	1.5	0.4	73.4	<0.01	0.04	2.1
M898298		0.07	112.0	880	2.5	9.6	0.002	0.70	2.22	37.2	2.9	0.6	467	<0.01	0.09	0.4
M898299		0.15	111.5	860	4.0	11.7	0.002	0.21	2.21	22.6	2.3	0.4	286	<0.01	0.02	2.0
M896201		0.37	94.3	920	1.9	15.9	0.004	0.54	0.75	22.5	3.4	0.5	173.5	<0.01	0.09	1.6
M896202		0.20	145.0	350	1.9	9.7	0.004	1.11	0.61	19.8	6.3	0.5	117.5	<0.01	0.38	1.1
M896203		0.28	77.0	700	2.8	7.6	0.004	0.54	1.23	32.5	4.9	0.8	261	<0.01	0.14	2.8
M896204		0.49	56.7	720	1.6	8.0	0.003	0.37	0.24	15.3	2.8	0.5	81.7	<0.01	0.09	2.6
M896205		0.37	40.4	560	2.0	7.1	0.001	0.15	0.40	21.4	2.0	0.5	106.5	<0.01	0.07	1.6
M896206		0.32	39.0	770	1.6	9.4	0.001	0.19	1.74	22.5	2.1	0.4	227	<0.01	0.06	1.1
M896207		0.27	64.5	660	1.9	7.8	0.001	0.36	1.92	28.3	2.0	0.4	219	<0.01	0.05	1.9
M896208		0.25	58.9	690	3.1	6.2	0.002	0.23	1.92	53.4	1.4	0.8	387	<0.01	0.03	2.8
M896209		0.24	56.1	570	3.3	8.8	0.001	0.68	0.24	10.9	3.3	0.5	38.0	<0.01	0.21	2.3
M896210		0.47	16.4	790	1.3	23.6	0.001	0.07	0.07	3.1	0.8	0.4	58.3	<0.01	0.01	4.3
M896211		0.52	13.4	640	1.5	27.8	<0.001	0.19	0.14	4.9	1.8	0.5	53.5	<0.01	0.05	5.6
M898284		0.07	34.0	350	19.8	73.5	<0.001	0.59	3.28	32.3	1.9	1.1	312	<0.01	0.11	0.2
M898285		<0.05	40.5	240	4.3	0.8	0.001	1.44	1.24	0.4	1.9	0.3	118.5	<0.01	0.90	<0.2
M898286		<0.05	45.0	80	2.7	0.4	0.008	0.67	0.47	0.2	1.8	<0.2	3.6	<0.01	1.46	0.2
M898287		0.20	4.9	270	1.7	2.4	0.005	0.80	0.33	1.1	3.4	0.5	63.7	<0.01	4.11	1.1
M898288		0.10	6.5	180	12.2	1.1	0.009	0.41	2.02	1.1	0.4	0.7	153.5	<0.01	0.04	0.3
M898289		<0.05	66.3	10	163.0	0.2	0.001	1.33	0.37	8.0	8.1	<0.2	513	0.01	1.52	<0.2

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14103094

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Cu-OG46
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Cu
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOR	0.005	0.02	0.05	1	0.05	0.05	2	0.5	0.001
M898290		0.251	0.14	3.64	127	0.32	6.87	40	3.1	
M898291		<0.005	0.04	0.70	22	211	1.18	117	0.7	2.08
M898292		<0.005	0.02	0.69	2	0.34	7.81	4	<0.5	
M898293		<0.005	0.03	0.29	5	0.32	0.85	5	0.5	
M898294		0.017	0.14	1.69	75	0.98	11.05	42	1.5	
M898295		0.480	0.73	0.25	300	0.85	2.93	62	2.0	
M898296		0.022	0.25	2.36	93	260	4.32	49	2.0	
M898297		0.128	0.07	0.90	88	8.66	3.16	30	5.0	
M898298		0.043	0.13	1.88	166	5.42	6.85	81	1.5	
M898299		0.006	0.13	1.43	91	1.26	11.35	74	1.6	
M896201		0.137	0.10	0.99	121	14.20	5.27	43	2.4	
M896202		0.071	0.09	0.74	81	22.2	3.39	57	2.1	
M896203		0.059	0.05	1.33	116	8.59	7.94	65	2.3	
M896204		0.117	0.07	1.00	75	12.60	4.19	37	2.3	
M896205		0.083	0.05	0.75	92	3.80	5.48	41	2.0	
M896206		0.089	0.09	0.51	91	1.30	5.36	30	2.1	
M896207		0.052	0.12	0.59	95	1.18	7.92	38	3.1	
M896208		0.032	0.10	1.59	151	10.05	11.65	62	1.5	
M896209		0.122	0.10	0.80	70	30.0	3.77	39	2.8	
M896210		0.211	0.12	1.27	77	0.18	5.20	24	2.6	
M896211		0.160	0.14	2.30	66	85.5	6.32	22	2.6	
M898284		0.228	0.31	0.29	173	2.30	4.33	72	1.8	
M898285		<0.005	0.07	0.57	8	23.7	1.89	95	<0.5	
M898286		<0.005	0.09	0.24	8	1.83	0.74	184	<0.5	
M898287		0.020	0.10	1.71	10	64.0	8.43	100	1.2	
M898288		0.009	0.04	1.69	8	3.01	8.46	63	1.3	
M898289		<0.005	<0.02	0.21	4	1.67	119.5	310	<0.5	

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14103094

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi-quantitative due to the small sample weight used (0.5g).
ME-MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.

CRU-31	CRU-QC	LOG-21	SPL-21
WEI-21			

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	Cu-OG46	ME-MS41	ME-OG46
PUL-31	PUL-QC		

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19-JUL-2014
Account: MTT

CERTIFICATE WH14103095

Project: HOPPER

This report is for 5 Soil samples submitted to our lab in Whitehorse, YT, Canada on 4-JUL-2014.

The following have access to data associated with this certificate:

HEATHER BURRELL	SARAH DRECHSLER	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

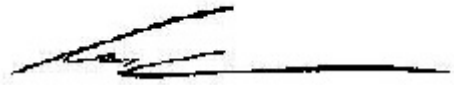
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **STRATEGIC METALS LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14103095

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ68570		0.31	0.001	<0.2	1.52	6	<10	140	<0.5	<2	0.54	<0.5	9	33	20	2.95
ZZ68571		0.32	0.002	<0.2	2.31	7	<10	160	0.6	3	0.28	<0.5	13	50	29	3.31
ZZ68572		0.35	0.006	<0.2	1.21	5	<10	130	<0.5	2	0.49	<0.5	7	29	19	2.07
ZZ68573		0.25	0.002	<0.2	2.65	4	<10	210	0.7	2	0.78	<0.5	15	49	36	3.27
ZZ68574		0.35	0.002	<0.2	1.91	8	<10	160	0.5	3	0.63	<0.5	13	49	60	3.09

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14103095

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ68570		10	<1	0.28	10	0.74	266	<1	0.02	19	730	8	0.01	<2	4	29
ZZ68571		10	<1	0.24	20	0.89	359	<1	0.01	32	410	11	<0.01	<2	5	17
ZZ68572		<10	<1	0.12	10	0.56	230	<1	0.01	17	890	5	<0.01	<2	4	27
ZZ68573		10	<1	0.63	30	1.15	397	<1	0.03	44	890	9	0.02	<2	7	55
ZZ68574		10	<1	0.44	20	1.05	460	<1	0.03	28	1100	7	<0.01	<2	6	33

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14103095

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ68570		<20	0.15	<10	<10	53	<10	58
ZZ68571		<20	0.16	<10	<10	54	<10	65
ZZ68572		<20	0.10	<10	<10	43	<10	40
ZZ68573		<20	0.18	<10	<10	57	<10	88
ZZ68574		<20	0.17	<10	<10	69	<10	55

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 19-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14103095

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-ICP41

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 15-JUL-2014
Account: MTT

CERTIFICATE WH14103099

Project: HOPPER

This report is for 69 Soil samples submitted to our lab in Whitehorse, YT, Canada on 1-JUL-2014.

The following have access to data associated with this certificate:

HEATHER BURRELL	SARAH DRECHSLER	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

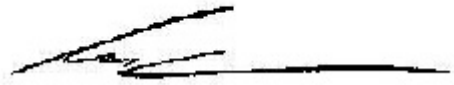
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **STRATEGIC METALS LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 15-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14103099

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ68501		0.28	0.027	0.9	1.53	17	<10	180	0.7	<2	0.82	<0.5	15	39	508	3.68
ZZ68502		0.26	0.015	<0.2	1.50	11	<10	230	<0.5	<2	0.52	<0.5	13	35	210	3.13
ZZ68503		0.26	0.059	<0.2	1.84	12	<10	110	0.5	<2	0.31	<0.5	16	39	152	3.59
ZZ68504		0.26	0.027	0.2	1.79	13	<10	170	0.5	<2	0.40	<0.5	15	39	302	3.25
ZZ68505		0.26	0.009	<0.2	1.52	10	<10	140	<0.5	<2	0.69	<0.5	9	28	85	2.78
ZZ68506		0.18	0.008	<0.2	1.34	17	<10	130	<0.5	<2	0.89	<0.5	12	36	130	3.10
ZZ68507		0.26	0.010	0.2	2.00	8	<10	360	0.6	<2	0.50	<0.5	13	41	238	3.16
ZZ68508		0.33	0.015	<0.2	1.02	119	<10	110	0.9	<2	0.65	<0.5	15	23	70	4.43
ZZ68509		0.15	0.005	<0.2	1.68	20	<10	170	0.8	<2	1.84	<0.5	15	40	123	2.75
ZZ68510		0.26	0.012	0.2	1.60	41	<10	110	1.2	2	2.40	<0.5	18	47	226	4.32
ZZ68511		0.29	0.010	0.2	1.57	6	<10	210	0.6	<2	0.78	<0.5	12	35	318	3.23
ZZ68512		0.19	0.013	0.4	0.96	17	<10	260	0.8	<2	1.14	<0.5	11	20	664	2.88
ZZ68513		0.19	0.008	0.2	1.25	6	<10	420	0.6	<2	2.13	<0.5	11	25	359	2.49
ZZ68514		0.18	0.009	0.3	1.12	7	<10	330	0.7	<2	1.39	<0.5	12	22	927	2.79
ZZ68515		0.19	0.004	0.2	1.44	10	<10	240	0.6	<2	1.03	<0.5	12	27	253	3.26
ZZ68516		0.14	0.013	0.4	1.66	9	<10	260	0.7	<2	1.25	<0.5	14	38	943	3.02
ZZ68517		0.24	0.007	0.2	1.34	27	<10	220	0.8	<2	1.88	<0.5	16	19	297	2.90
ZZ68518		0.23	0.003	<0.2	1.89	6	<10	160	0.5	<2	0.44	<0.5	11	37	93	2.91
ZZ68519		0.14	0.005	<0.2	3.21	27	<10	580	0.7	3	0.93	0.5	51	144	177	7.51
ZZ68520		0.24	0.009	<0.2	1.49	11	<10	240	0.5	<2	0.97	<0.5	16	42	117	2.98
ZZ68521		0.22	0.005	<0.2	0.36	<2	<10	30	<0.5	<2	0.25	<0.5	3	7	14	0.85
ZZ68522		0.25	0.003	<0.2	1.04	6	<10	100	<0.5	<2	0.51	<0.5	8	20	52	1.91
ZZ68523		0.33	0.027	<0.2	1.91	13	<10	210	0.6	<2	0.90	<0.5	15	46	129	3.45
ZZ68524		0.18	0.005	0.2	2.09	9	<10	140	0.6	<2	0.47	<0.5	25	55	197	4.05
ZZ68525		0.29	0.014	<0.2	2.12	19	<10	120	0.7	<2	0.30	<0.5	12	44	200	3.80
ZZ68526		0.26	0.043	<0.2	2.56	15	<10	120	0.8	<2	0.32	<0.5	13	48	158	3.81
ZZ68527		0.40	0.064	<0.2	1.72	22	<10	150	0.6	<2	0.82	<0.5	19	50	226	5.35
ZZ68528		0.32	0.016	0.2	1.36	10	<10	170	0.5	<2	0.74	<0.5	13	32	177	2.92
ZZ68529		0.29	0.002	<0.2	1.45	<2	<10	220	<0.5	<2	0.46	<0.5	9	31	53	2.26
ZZ68530		0.11	0.007	0.2	1.10	3	<10	190	<0.5	<2	1.05	<0.5	7	32	546	2.12
ZZ68531		0.39	0.007	0.2	1.22	2	<10	150	<0.5	<2	0.81	<0.5	8	26	57	2.04
ZZ68532		0.24	0.002	<0.2	0.90	<2	<10	190	<0.5	<2	0.41	<0.5	6	15	96	1.44
ZZ68533		0.25	0.002	<0.2	1.33	3	<10	130	0.5	<2	0.39	<0.5	11	30	113	2.69
ZZ68534		0.20	0.008	0.2	1.33	6	<10	250	<0.5	2	0.96	<0.5	10	27	652	2.32
ZZ68535		0.19	0.002	0.3	1.08	<2	<10	180	<0.5	2	0.45	<0.5	7	19	108	1.59
ZZ68536		0.25	0.002	<0.2	0.88	<2	<10	110	<0.5	2	0.38	<0.5	6	16	40	1.43
ZZ68537		0.29	0.005	<0.2	1.86	2	<10	170	<0.5	<2	0.55	<0.5	12	35	202	2.76
ZZ68538		0.35	0.002	<0.2	1.94	4	<10	120	0.5	<2	0.51	<0.5	11	39	127	2.72
ZZ68539		0.29	0.002	0.2	2.01	3	<10	220	0.6	<2	0.49	<0.5	12	34	127	2.87
ZZ68540		0.36	0.005	0.2	1.26	7	<10	180	0.6	<2	0.64	<0.5	9	25	416	2.77

***** See Appendix Page for comments regarding this certificate *****

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To: **STRATEGIC METALS LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 15-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14103099

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ68501		<10	<1	0.07	10	0.68	465	8	0.01	56	650	7	0.04	2	5	30
ZZ68502		<10	<1	0.09	10	0.73	427	4	0.02	43	520	5	0.02	<2	5	24
ZZ68503		10	<1	0.09	10	0.70	345	5	0.01	34	260	6	0.01	<2	4	17
ZZ68504		10	<1	0.07	10	0.74	432	18	0.02	31	550	6	0.02	<2	4	20
ZZ68505		10	<1	0.07	10	0.47	365	8	0.02	21	390	5	0.02	<2	3	28
ZZ68506		<10	<1	0.11	10	0.62	677	4	0.02	26	1330	7	0.06	<2	3	34
ZZ68507		10	<1	0.18	20	0.83	457	3	0.02	33	290	5	0.01	<2	7	31
ZZ68508		<10	<1	0.14	20	0.31	586	6	0.01	38	580	13	0.04	3	7	30
ZZ68509		10	<1	0.43	20	1.10	401	3	0.05	34	720	3	0.08	2	7	70
ZZ68510		10	<1	0.18	30	1.11	621	10	0.03	53	900	13	0.07	<2	10	92
ZZ68511		<10	<1	0.22	20	0.71	423	6	0.02	22	630	6	0.02	<2	8	39
ZZ68512		<10	<1	0.16	20	0.44	451	11	0.02	14	840	8	0.04	2	7	50
ZZ68513		<10	<1	0.12	10	0.59	467	10	0.02	17	770	4	0.08	<2	4	102
ZZ68514		<10	<1	0.27	20	0.54	501	13	0.02	15	860	6	0.07	3	6	63
ZZ68515		<10	<1	0.20	10	0.60	467	5	0.02	16	430	7	0.03	<2	7	50
ZZ68516		10	<1	0.39	20	0.75	442	4	0.03	31	590	7	0.05	<2	7	51
ZZ68517		<10	<1	0.12	20	0.55	465	5	0.01	23	420	7	0.04	<2	12	67
ZZ68518		10	1	0.18	10	0.78	304	4	0.01	23	220	6	0.01	<2	5	26
ZZ68519		10	<1	1.25	20	2.22	895	5	0.03	110	1140	6	0.13	<2	12	61
ZZ68520		<10	<1	0.10	10	0.67	549	3	0.03	38	1020	4	0.05	<2	4	49
ZZ68521		<10	1	0.04	<10	0.13	146	1	0.03	3	410	<2	0.01	<2	1	16
ZZ68522		<10	<1	0.12	10	0.39	285	2	0.02	11	300	4	0.02	<2	2	28
ZZ68523		10	<1	0.18	10	0.86	600	3	0.04	31	400	5	0.03	<2	6	41
ZZ68524		10	<1	0.27	20	0.91	510	7	0.02	47	1020	7	0.16	<2	6	38
ZZ68525		10	<1	0.12	10	0.87	303	5	0.01	32	190	6	0.02	<2	5	15
ZZ68526		10	<1	0.08	10	0.78	280	5	0.01	31	230	8	0.01	<2	5	19
ZZ68527		10	1	0.13	10	0.83	326	63	0.02	47	900	8	0.06	2	6	32
ZZ68528		10	<1	0.05	10	0.54	532	5	0.02	31	600	5	0.06	2	4	38
ZZ68529		10	<1	0.16	10	0.55	308	10	0.01	20	280	3	0.01	<2	4	51
ZZ68530		<10	<1	0.11	10	0.62	241	14	0.02	16	710	2	0.04	3	5	198
ZZ68531		<10	1	0.08	10	0.49	375	7	0.03	21	420	3	0.02	2	4	79
ZZ68532		<10	<1	0.07	<10	0.26	448	9	0.02	11	330	2	0.01	<2	2	32
ZZ68533		<10	<1	0.29	10	0.56	374	11	0.01	17	260	3	0.01	<2	7	26
ZZ68534		10	<1	0.39	10	0.70	437	10	0.01	19	750	5	0.03	<2	4	52
ZZ68535		<10	1	0.17	10	0.33	361	6	0.02	13	410	2	0.01	2	2	29
ZZ68536		<10	<1	0.15	<10	0.29	282	6	0.02	11	210	2	0.01	<2	2	27
ZZ68537		10	<1	0.14	10	0.60	400	20	0.02	24	120	4	0.01	2	5	34
ZZ68538		10	<1	0.16	10	0.66	371	18	0.02	22	210	4	<0.01	<2	6	36
ZZ68539		10	1	0.14	10	0.59	631	22	0.01	21	280	7	0.01	2	4	35
ZZ68540		<10	<1	0.23	20	0.50	336	35	0.01	18	440	5	0.02	<2	9	130

***** See Appendix Page for comments regarding this certificate *****

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 15-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14103099

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ68501		<20	0.05	<10	<10	52	<10	39
ZZ68502		<20	0.10	<10	<10	56	<10	41
ZZ68503		<20	0.10	<10	<10	64	<10	42
ZZ68504		<20	0.13	<10	<10	60	<10	43
ZZ68505		<20	0.07	<10	<10	55	<10	40
ZZ68506		<20	0.07	<10	<10	63	<10	86
ZZ68507		<20	0.13	<10	<10	68	<10	48
ZZ68508		<20	0.02	<10	<10	44	<10	62
ZZ68509		<20	0.12	<10	<10	63	<10	43
ZZ68510		<20	0.07	<10	10	79	<10	57
ZZ68511		<20	0.10	<10	<10	64	<10	44
ZZ68512		<20	0.02	<10	<10	44	<10	44
ZZ68513		<20	0.04	<10	<10	48	<10	37
ZZ68514		<20	0.04	<10	10	50	<10	41
ZZ68515		<20	0.08	<10	<10	59	<10	47
ZZ68516		<20	0.11	<10	<10	62	<10	47
ZZ68517		<20	0.02	<10	<10	50	<10	31
ZZ68518		<20	0.13	<10	<10	68	<10	47
ZZ68519		<20	0.40	<10	<10	150	<10	104
ZZ68520		<20	0.10	<10	<10	58	<10	46
ZZ68521		<20	0.06	<10	<10	28	<10	15
ZZ68522		<20	0.08	<10	<10	46	<10	30
ZZ68523		<20	0.14	<10	<10	69	<10	56
ZZ68524		<20	0.15	<10	<10	94	<10	67
ZZ68525		<20	0.11	<10	<10	78	<10	39
ZZ68526		<20	0.12	<10	<10	81	<10	48
ZZ68527		<20	0.10	<10	<10	71	<10	52
ZZ68528		<20	0.07	<10	<10	52	<10	60
ZZ68529		<20	0.09	<10	<10	54	<10	34
ZZ68530		<20	0.09	<10	10	48	<10	32
ZZ68531		<20	0.07	<10	<10	47	<10	32
ZZ68532		<20	0.07	<10	<10	37	<10	27
ZZ68533		<20	0.07	<10	<10	55	<10	32
ZZ68534		<20	0.09	<10	<10	48	<10	43
ZZ68535		<20	0.08	<10	<10	38	<10	28
ZZ68536		<20	0.08	<10	<10	35	<10	24
ZZ68537		<20	0.14	<10	<10	67	<10	36
ZZ68538		<20	0.15	<10	<10	67	<10	49
ZZ68539		<20	0.11	<10	<10	70	<10	51
ZZ68540		<20	0.06	<10	<10	53	<10	34

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Finalized Date: 15-JUL-2014
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CERTIFICATE OF ANALYSIS WH14103099

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ68541		0.22	0.001	0.2	1.54	3	<10	240	<0.5	<2	0.40	<0.5	13	29	68	2.53
ZZ68542		0.32	0.006	<0.2	1.52	6	<10	120	<0.5	<2	0.53	<0.5	11	34	102	2.68
ZZ68543		0.29	0.006	0.2	1.64	4	<10	270	0.5	<2	1.02	<0.5	10	37	789	2.51
ZZ68544		0.26	0.003	<0.2	1.20	7	<10	90	<0.5	<2	0.29	<0.5	8	30	73	1.95
ZZ68545		0.23	0.004	<0.2	2.31	8	<10	220	0.5	<2	0.46	<0.5	11	40	109	2.81
ZZ68546		0.18	0.008	<0.2	1.50	4	<10	160	<0.5	<2	0.46	<0.5	8	31	49	2.45
ZZ68547		0.24	0.002	<0.2	1.45	5	<10	130	<0.5	<2	0.37	<0.5	9	32	36	2.28
ZZ68548		0.23	0.013	0.3	1.60	8	<10	280	0.5	<2	1.33	<0.5	10	33	693	2.52
ZZ68549		0.17	0.003	<0.2	1.68	5	<10	230	<0.5	<2	0.89	<0.5	11	34	75	2.57
ZZ68550		0.20	0.001	<0.2	1.48	2	<10	190	<0.5	<2	0.48	<0.5	8	29	103	2.02
ZZ68551		0.21	0.005	<0.2	1.79	5	<10	180	<0.5	<2	0.82	<0.5	12	36	754	2.58
ZZ68552		0.24	0.005	<0.2	1.61	6	<10	240	0.5	<2	0.81	<0.5	9	33	668	2.37
ZZ68553		0.22	0.003	<0.2	1.70	6	<10	70	<0.5	<2	0.29	<0.5	8	33	68	2.47
ZZ68554		0.30	0.004	<0.2	1.61	5	<10	260	<0.5	2	0.49	<0.5	8	32	215	2.22
ZZ68555		0.25	0.003	<0.2	1.46	6	<10	140	<0.5	<2	0.36	<0.5	8	32	105	2.27
ZZ68556		0.20	0.003	<0.2	1.71	6	<10	210	0.5	<2	0.46	<0.5	13	32	97	2.63
ZZ68557		0.31	0.005	<0.2	1.55	5	<10	110	<0.5	<2	0.32	<0.5	9	28	56	2.49
ZZ68558		0.22	0.005	<0.2	1.48	5	<10	90	<0.5	<2	0.38	<0.5	8	33	45	2.24
ZZ68559		0.20	0.003	<0.2	1.73	7	<10	70	<0.5	<2	0.32	<0.5	9	34	90	2.49
ZZ68560		0.28	0.003	<0.2	1.50	3	<10	240	<0.5	<2	0.54	<0.5	8	30	798	2.33
ZZ68561		0.23	0.003	<0.2	1.39	4	<10	150	<0.5	<2	0.42	<0.5	9	28	118	2.22
ZZ68562		0.33	0.002	<0.2	1.21	4	<10	90	<0.5	<2	0.39	<0.5	6	26	61	1.80
ZZ68563		0.24	0.004	<0.2	1.79	5	<10	200	<0.5	<2	0.66	<0.5	10	35	293	2.37
ZZ68564		0.19	0.004	<0.2	1.53	8	<10	270	<0.5	2	1.05	<0.5	9	31	326	2.47
ZZ68565		0.29	0.006	<0.2	1.52	7	<10	190	0.5	2	0.68	<0.5	11	33	320	2.67
ZZ68566		0.23	0.003	<0.2	1.78	5	<10	250	0.5	<2	0.39	<0.5	8	32	146	2.63
ZZ68567		0.26	0.002	<0.2	3.31	9	<10	190	1.2	3	0.49	<0.5	16	54	284	4.08
ZZ68568		0.24	0.003	<0.2	1.59	5	<10	140	<0.5	<2	0.40	<0.5	8	31	36	2.44
ZZ68569		0.21	0.008	0.3	2.05	7	<10	230	0.8	2	1.24	<0.5	14	41	1835	2.88

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 15-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14103099

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ68541		10	<1	0.23	10	0.50	625	9	0.01	21	200	6	0.01	<2	4	39
ZZ68542		<10	<1	0.34	10	0.65	306	8	0.02	22	360	8	0.02	<2	6	34
ZZ68543		<10	<1	0.17	20	0.81	402	10	0.02	23	850	6	0.04	<2	8	91
ZZ68544		<10	<1	0.26	10	0.54	162	8	0.01	17	170	7	0.02	<2	3	20
ZZ68545		10	<1	0.14	10	0.72	376	4	0.01	26	880	7	0.06	2	4	36
ZZ68546		<10	<1	0.19	10	0.54	190	24	0.01	17	170	5	0.02	<2	3	31
ZZ68547		<10	<1	0.21	10	0.57	233	15	0.01	17	160	7	0.01	<2	4	26
ZZ68548		10	<1	0.25	20	0.90	380	5	0.03	24	760	7	0.05	<2	5	88
ZZ68549		10	<1	0.22	10	0.65	389	13	0.01	20	280	11	0.03	<2	5	52
ZZ68550		<10	<1	0.13	10	0.52	390	15	0.02	16	230	5	0.01	2	4	36
ZZ68551		10	<1	0.19	10	0.80	516	10	0.02	26	490	6	0.03	2	6	93
ZZ68552		<10	<1	0.18	10	0.68	359	4	0.02	21	690	7	0.03	<2	6	68
ZZ68553		10	<1	0.05	10	0.63	180	21	0.01	16	160	7	0.01	<2	3	23
ZZ68554		<10	<1	0.10	10	0.65	262	26	0.02	18	680	5	0.01	<2	5	53
ZZ68555		<10	<1	0.22	10	0.56	201	11	0.01	17	90	5	0.01	<2	5	25
ZZ68556		10	<1	0.31	10	0.65	615	14	0.02	21	230	8	0.01	<2	5	35
ZZ68557		10	<1	0.26	10	0.65	217	13	0.01	16	200	5	0.02	<2	3	21
ZZ68558		<10	<1	0.14	10	0.58	212	9	0.01	17	200	5	0.02	<2	4	27
ZZ68559		10	<1	0.16	10	0.65	207	15	0.01	22	180	6	0.02	<2	4	20
ZZ68560		<10	<1	0.17	10	0.52	179	20	0.01	18	170	5	0.02	<2	5	39
ZZ68561		<10	<1	0.19	10	0.52	345	17	0.02	16	170	6	0.01	<2	5	28
ZZ68562		<10	<1	0.07	10	0.52	205	4	0.01	14	710	4	0.01	<2	3	20
ZZ68563		10	<1	0.15	10	0.70	292	9	0.04	23	330	7	0.02	<2	5	64
ZZ68564		10	<1	0.17	10	0.70	296	13	0.03	27	710	7	0.02	<2	5	133
ZZ68565		10	<1	0.19	10	0.67	419	18	0.02	23	520	4	0.01	<2	7	91
ZZ68566		10	<1	0.13	10	0.64	280	26	0.02	18	170	7	0.01	<2	5	44
ZZ68567		10	<1	0.09	10	0.87	434	66	0.02	34	300	9	0.01	<2	6	58
ZZ68568		10	<1	0.08	10	0.60	214	16	0.02	18	150	4	0.01	<2	3	32
ZZ68569		10	<1	0.13	20	0.79	518	27	0.03	32	990	6	0.03	<2	7	227

***** See Appendix Page for comments regarding this certificate *****

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To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 15-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14103099

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ68541		<20	0.12	<10	<10	59	<10	44
ZZ68542		<20	0.12	<10	<10	58	<10	39
ZZ68543		<20	0.10	<10	10	56	<10	46
ZZ68544		<20	0.12	<10	<10	48	<10	25
ZZ68545		<20	0.10	<10	<10	71	<10	55
ZZ68546		<20	0.12	<10	<10	62	<10	38
ZZ68547		<20	0.14	<10	<10	58	<10	38
ZZ68548		<20	0.12	<10	<10	58	<10	54
ZZ68549		<20	0.12	<10	<10	64	<10	51
ZZ68550		<20	0.12	<10	<10	53	<10	44
ZZ68551		<20	0.14	<10	10	64	<10	49
ZZ68552		<20	0.11	<10	10	54	<10	42
ZZ68553		<20	0.15	<10	<10	76	<10	49
ZZ68554		<20	0.12	<10	<10	53	<10	39
ZZ68555		<20	0.14	<10	<10	59	<10	37
ZZ68556		<20	0.14	<10	<10	61	<10	44
ZZ68557		<20	0.15	<10	<10	59	<10	37
ZZ68558		<20	0.13	<10	<10	60	<10	35
ZZ68559		<20	0.14	<10	<10	63	<10	41
ZZ68560		<20	0.11	<10	<10	57	<10	36
ZZ68561		<20	0.12	<10	<10	55	<10	34
ZZ68562		<20	0.11	<10	<10	46	<10	31
ZZ68563		<20	0.13	<10	10	56	<10	42
ZZ68564		<20	0.10	<10	10	52	<10	55
ZZ68565		<20	0.11	<10	<10	57	<10	41
ZZ68566		<20	0.10	<10	<10	66	<10	36
ZZ68567		<20	0.14	<10	10	100	<10	63
ZZ68568		<20	0.11	<10	<10	68	<10	35
ZZ68569		<20	0.12	<10	20	61	<10	48

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 15-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14103099

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-ICP41

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 25-JUL-2014
Account: MTT

CERTIFICATE WH14107850

Project: HOPPER

This report is for 72 Soil samples submitted to our lab in Whitehorse, YT, Canada on 14-JUL-2014.

The following have access to data associated with this certificate:

HEATHER BURRELL	SARAH DRECHSLER	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **STRATEGIC METALS LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 25-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14107850

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ68575		0.22	0.005	<0.2	1.75	9	<10	260	<0.5	<2	0.80	<0.5	33	35	44	4.78
ZZ68576		0.31	0.010	0.3	1.41	<2	<10	200	<0.5	<2	0.64	<0.5	8	31	109	1.76
ZZ68577		0.20	0.006	0.5	1.55	5	<10	180	<0.5	<2	0.63	<0.5	9	27	182	2.34
ZZ68578		0.27	0.004	<0.2	1.58	6	<10	170	<0.5	<2	0.59	<0.5	10	35	116	2.88
ZZ68579		0.39	0.008	0.5	1.88	5	<10	200	0.5	<2	0.68	<0.5	10	41	269	2.56
ZZ68580		0.32	0.006	<0.2	1.80	6	<10	200	<0.5	<2	0.56	<0.5	9	38	132	2.21
ZZ68581		0.23	0.004	0.3	1.72	3	<10	250	<0.5	<2	0.60	<0.5	9	29	99	1.78
ZZ68582		0.28	0.004	<0.2	1.71	6	<10	160	<0.5	<2	0.40	<0.5	8	36	87	2.14
ZZ68583		0.29	0.004	0.2	1.09	4	<10	150	<0.5	<2	0.51	<0.5	9	29	66	2.29
ZZ68584		0.31	0.007	<0.2	1.23	5	<10	160	<0.5	<2	0.58	<0.5	14	34	108	2.77
ZZ68585		0.21	0.002	0.2	0.64	2	<10	80	<0.5	<2	0.27	<0.5	4	14	25	1.34
ZZ68586		0.33	0.004	<0.2	1.25	2	<10	120	<0.5	<2	0.50	<0.5	8	27	60	1.89
ZZ68587		0.42	0.004	<0.2	0.92	4	<10	110	<0.5	<2	0.49	<0.5	5	25	55	1.68
ZZ68588		0.40	0.004	<0.2	0.89	4	<10	100	<0.5	<2	0.52	<0.5	6	24	65	1.97
ZZ68589		0.31	0.004	<0.2	1.09	5	<10	140	<0.5	<2	0.48	<0.5	10	30	60	2.38
ZZ68590		0.28	0.002	<0.2	1.28	5	<10	130	<0.5	<2	0.38	<0.5	9	32	31	2.63
ZZ68591		0.35	0.010	<0.2	0.97	6	<10	110	<0.5	<2	0.54	<0.5	9	34	103	2.58
ZZ68592		0.27	0.004	0.2	1.32	5	<10	150	<0.5	<2	0.48	<0.5	11	30	118	2.29
ZZ68593		0.32	0.003	0.2	1.41	7	<10	150	<0.5	<2	0.44	<0.5	7	31	73	2.18
ZZ68594		0.32	0.015	<0.2	0.92	5	<10	110	<0.5	<2	0.44	<0.5	10	31	69	2.28
ZZ68595		0.30	0.003	0.2	2.00	5	<10	110	<0.5	<2	0.33	<0.5	9	33	25	2.53
ZZ68596		0.28	0.005	<0.2	1.71	6	<10	130	<0.5	<2	0.34	<0.5	11	35	80	2.77
ZZ68597		0.35	0.004	0.3	1.36	3	<10	140	<0.5	<2	0.42	<0.5	10	32	149	2.59
ZZ68598		0.47	0.006	0.2	1.06	3	<10	100	<0.5	<2	0.51	<0.5	6	26	83	1.95
ZZ68599		0.20	0.005	<0.2	1.88	5	<10	110	<0.5	<2	0.36	<0.5	10	33	128	2.82
ZZ68600		0.25	0.003	0.4	1.31	4	<10	160	<0.5	<2	0.42	<0.5	4	27	59	1.88
ZZ68601		0.23	0.001	<0.2	0.27	<2	<10	30	<0.5	<2	0.17	<0.5	2	3	12	0.78
ZZ68602		0.38	0.005	0.2	1.38	6	<10	140	<0.5	<2	0.53	<0.5	9	33	88	2.61
ZZ68603		0.36	0.006	0.2	1.69	8	<10	190	<0.5	<2	0.51	<0.5	11	35	166	2.76
ZZ68604		0.32	0.039	0.2	1.22	6	<10	160	<0.5	<2	0.58	<0.5	8	30	135	2.37
ZZ68605		0.28	0.003	0.2	2.13	7	<10	260	<0.5	<2	0.65	<0.5	11	38	85	3.04
ZZ68606		0.30	0.002	<0.2	1.47	6	<10	150	<0.5	<2	0.49	<0.5	6	30	30	2.45
ZZ68607		0.29	0.002	<0.2	1.58	6	<10	190	<0.5	<2	0.47	<0.5	7	32	92	2.35
ZZ68608		0.21	0.001	<0.2	0.32	<2	<10	30	<0.5	<2	0.18	<0.5	2	3	12	0.59
ZZ68609		0.38	0.006	<0.2	1.44	4	<10	140	<0.5	<2	0.65	<0.5	12	43	102	2.64
ZZ68610		0.33	0.005	0.2	1.20	3	<10	100	<0.5	<2	0.50	<0.5	11	32	108	2.28
ZZ68611		0.27	0.003	<0.2	1.30	5	<10	110	<0.5	<2	0.44	<0.5	9	30	67	2.69
ZZ68612		0.36	0.006	0.2	1.65	6	<10	140	<0.5	<2	0.47	<0.5	11	30	169	2.66
ZZ68613		0.36	0.011	<0.2	0.85	4	<10	100	<0.5	<2	0.50	<0.5	7	23	121	1.99
ZZ68614		0.42	0.004	0.3	1.58	5	<10	120	<0.5	3	0.46	<0.5	9	30	85	2.42

***** See Appendix Page for comments regarding this certificate *****

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To: **STRATEGIC METALS LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 25-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14107850

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ68575		10	<1	0.08	10	0.79	503	13	0.01	18	880	8	0.04	<2	5	50
ZZ68576		<10	<1	0.06	10	0.61	168	1	0.02	16	1060	6	0.04	<2	5	41
ZZ68577		10	<1	0.06	10	0.54	225	2	0.02	15	640	6	0.03	<2	4	48
ZZ68578		10	<1	0.10	10	0.72	213	3	0.02	23	900	5	0.01	<2	4	32
ZZ68579		10	<1	0.15	20	0.82	205	3	0.02	23	1050	8	0.04	<2	10	46
ZZ68580		10	<1	0.07	10	0.72	204	2	0.01	20	1040	6	0.03	<2	5	35
ZZ68581		10	<1	0.07	10	0.63	187	1	0.02	18	930	5	0.04	<2	4	41
ZZ68582		10	<1	0.07	10	0.70	198	2	0.01	17	690	8	0.03	<2	4	28
ZZ68583		<10	<1	0.07	10	0.54	292	2	0.02	16	1030	5	0.01	<2	3	29
ZZ68584		<10	<1	0.10	10	0.64	469	2	0.02	22	1170	6	<0.01	<2	4	30
ZZ68585		<10	<1	0.03	10	0.23	130	1	0.02	5	690	2	0.02	<2	2	18
ZZ68586		<10	<1	0.09	10	0.55	160	1	0.02	16	950	5	<0.01	<2	3	25
ZZ68587		<10	<1	0.08	10	0.46	134	1	0.02	13	1160	4	<0.01	<2	3	23
ZZ68588		<10	<1	0.08	10	0.46	153	2	0.02	12	1220	5	<0.01	<2	3	24
ZZ68589		<10	<1	0.10	10	0.57	279	1	0.02	19	740	6	0.01	<2	3	27
ZZ68590		10	<1	0.10	10	0.60	240	2	0.01	16	340	5	<0.01	<2	4	25
ZZ68591		<10	<1	0.10	20	0.54	277	2	0.02	15	1270	5	<0.01	<2	3	24
ZZ68592		<10	<1	0.08	10	0.59	584	2	0.01	14	920	3	0.02	<2	4	28
ZZ68593		10	<1	0.07	10	0.62	205	2	0.01	15	750	5	0.01	<2	4	26
ZZ68594		<10	<1	0.08	20	0.46	283	2	0.01	13	1170	4	<0.01	<2	3	18
ZZ68595		<10	<1	0.09	10	0.55	243	1	0.01	16	560	5	0.01	<2	4	20
ZZ68596		<10	<1	0.12	10	0.57	289	2	0.01	21	710	5	<0.01	<2	4	19
ZZ68597		10	<1	0.09	10	0.61	301	1	0.02	16	790	5	0.01	<2	4	27
ZZ68598		<10	<1	0.11	10	0.55	166	1	0.02	12	1260	4	<0.01	<2	3	25
ZZ68599		10	<1	0.09	10	0.63	240	2	0.02	19	820	6	0.01	<2	4	21
ZZ68600		10	<1	0.07	10	0.40	122	1	0.01	10	420	6	0.02	<2	3	43
ZZ68601		<10	<1	0.03	<10	0.10	46	<1	0.03	2	550	<2	0.01	<2	<1	14
ZZ68602		10	<1	0.11	10	0.73	233	2	0.02	17	1140	6	0.01	<2	4	30
ZZ68603		<10	<1	0.10	10	0.70	282	2	0.02	23	860	7	<0.01	<2	5	29
ZZ68604		<10	<1	0.10	20	0.57	240	2	0.02	19	1130	5	<0.01	<2	4	29
ZZ68605		10	<1	0.10	10	0.80	452	4	0.02	22	990	6	0.03	<2	5	48
ZZ68606		10	<1	0.10	10	0.54	243	2	0.01	14	560	6	<0.01	<2	4	31
ZZ68607		10	<1	0.12	10	0.66	275	3	0.02	18	710	5	0.01	<2	5	33
ZZ68608		<10	<1	0.02	<10	0.07	67	<1	0.04	2	560	<2	0.01	<2	<1	14
ZZ68609		<10	<1	0.12	10	0.69	230	1	0.04	27	1270	4	<0.01	<2	3	51
ZZ68610		<10	<1	0.08	10	0.49	176	1	0.03	23	1110	11	<0.01	<2	3	31
ZZ68611		<10	<1	0.08	10	0.53	247	2	0.03	22	870	7	0.01	<2	3	31
ZZ68612		<10	<1	0.10	10	0.62	272	2	0.03	23	950	7	0.01	<2	4	30
ZZ68613		<10	<1	0.09	10	0.43	193	1	0.03	15	1230	3	<0.01	<2	2	29
ZZ68614		<10	<1	0.08	10	0.61	328	1	0.03	16	750	5	0.02	<2	3	40

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 25-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14107850

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ68575		<20	0.10	<10	<10	66	<10	66
ZZ68576		<20	0.10	<10	<10	43	<10	54
ZZ68577		<20	0.10	<10	<10	61	<10	37
ZZ68578		<20	0.13	<10	<10	73	<10	42
ZZ68579		<20	0.13	<10	10	74	<10	81
ZZ68580		<20	0.11	<10	<10	68	<10	69
ZZ68581		<20	0.08	<10	<10	49	<10	65
ZZ68582		<20	0.11	<10	<10	66	<10	47
ZZ68583		<20	0.10	<10	<10	62	<10	41
ZZ68584		<20	0.12	<10	<10	75	<10	44
ZZ68585		<20	0.06	<10	<10	44	<10	20
ZZ68586		<20	0.11	<10	<10	52	<10	32
ZZ68587		<20	0.09	<10	<10	57	<10	29
ZZ68588		<20	0.09	<10	<10	63	<10	26
ZZ68589		<20	0.11	<10	<10	63	<10	40
ZZ68590		<20	0.15	<10	<10	80	<10	44
ZZ68591		<20	0.11	<10	<10	71	<10	38
ZZ68592		<20	0.11	<10	<10	64	<10	39
ZZ68593		<20	0.11	<10	<10	61	<10	44
ZZ68594		<20	0.09	<10	<10	66	<10	29
ZZ68595		<20	0.11	<10	<10	58	<10	39
ZZ68596		<20	0.12	<10	<10	69	<10	38
ZZ68597		<20	0.11	<10	<10	69	<10	40
ZZ68598		<20	0.11	<10	<10	57	<10	34
ZZ68599		<20	0.13	<10	<10	74	<10	42
ZZ68600		<20	0.10	<10	<10	55	<10	29
ZZ68601		<20	0.05	<10	<10	25	<10	12
ZZ68602		<20	0.14	<10	<10	89	<10	43
ZZ68603		<20	0.13	<10	<10	70	<10	45
ZZ68604		<20	0.11	<10	<10	63	<10	37
ZZ68605		<20	0.11	<10	<10	73	<10	69
ZZ68606		<20	0.14	<10	<10	67	<10	53
ZZ68607		<20	0.11	<10	<10	59	<10	59
ZZ68608		<20	0.04	<10	<10	19	<10	9
ZZ68609		<20	0.12	<10	<10	81	<10	42
ZZ68610		<20	0.09	<10	<10	60	<10	41
ZZ68611		<20	0.10	<10	<10	67	<10	38
ZZ68612		<20	0.11	<10	<10	67	<10	47
ZZ68613		<20	0.07	<10	<10	56	<10	30
ZZ68614		<20	0.09	<10	<10	60	<10	48

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 25-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14107850

Sample Description	Method	WEI-21	Au-ICP21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ68615		0.30	0.002	0.2	1.43	11	<10	120	<0.5	<2	0.39	<0.5	7	30	53	2.11
ZZ68616		0.27	0.018	0.3	1.96	7	<10	210	0.5	<2	0.52	<0.5	15	35	184	3.23
ZZ68617		0.23	0.005	0.2	1.55	4	<10	170	<0.5	<2	0.50	<0.5	13	31	71	2.45
ZZ68618		0.34	0.002	0.2	1.85	4	<10	190	<0.5	2	0.55	<0.5	11	35	117	2.62
ZZ68619		0.36	0.004	0.2	1.75	5	<10	170	<0.5	2	0.47	<0.5	10	34	55	2.74
ZZ68620		0.28	0.003	<0.2	1.99	4	<10	120	<0.5	2	0.34	<0.5	9	32	107	2.59
ZZ68621		0.22	0.006	0.4	1.39	<2	<10	200	<0.5	<2	0.42	<0.5	4	17	186	1.03
ZZ68622		0.35	0.005	0.4	1.66	5	<10	180	<0.5	<2	0.66	<0.5	14	29	123	2.90
ZZ68623		0.23	0.007	0.8	1.41	6	<10	130	<0.5	<2	0.56	<0.5	6	15	142	1.18
ZZ68624		0.24	0.006	0.4	1.63	5	<10	190	<0.5	<2	0.60	<0.5	7	24	209	1.82
ZZ68625		0.26	0.005	0.2	1.99	3	<10	230	<0.5	2	0.68	<0.5	12	41	213	2.05
ZZ68626		0.26	0.006	<0.2	2.16	10	<10	220	0.5	<2	0.45	<0.5	13	35	237	2.90
ZZ68627		0.28	0.004	0.2	1.35	6	<10	180	<0.5	2	0.36	<0.5	7	27	93	2.37
ZZ68628		0.26	0.003	<0.2	1.12	3	<10	120	<0.5	<2	0.30	<0.5	4	17	38	1.60
ZZ68629		0.29	0.006	0.6	2.63	7	<10	320	0.7	2	0.89	<0.5	21	42	185	4.72
ZZ68630		0.34	0.003	<0.2	2.09	3	<10	250	<0.5	<2	0.75	<0.5	10	35	107	2.51
ZZ68631		0.31	0.001	<0.2	1.45	<2	<10	130	<0.5	<2	0.48	<0.5	6	28	44	1.53
ZZ68632		0.24	0.002	0.2	1.49	4	<10	170	<0.5	<2	0.61	<0.5	10	32	82	2.48
ZZ68633		0.55	0.005	0.2	1.50	4	<10	170	<0.5	<2	0.57	<0.5	8	32	111	2.25
ZZ68634		0.29	0.002	<0.2	1.18	3	<10	140	<0.5	<2	0.46	<0.5	7	23	57	1.79
ZZ68635		0.30	0.003	<0.2	1.53	2	<10	140	<0.5	<2	0.63	<0.5	10	32	69	2.12
ZZ68636		0.28	0.003	<0.2	1.45	4	<10	130	<0.5	3	0.38	<0.5	6	24	26	1.92
ZZ68637		0.34	0.005	0.2	1.45	4	<10	160	<0.5	2	0.45	<0.5	6	26	39	2.22
ZZ68638		0.31	0.004	<0.2	1.59	2	<10	230	<0.5	<2	0.47	<0.5	9	29	37	2.46
ZZ68639		0.31	0.022	0.2	1.52	2	<10	180	<0.5	<2	0.43	<0.5	7	29	57	1.77
ZZ68640		0.36	0.004	<0.2	0.86	3	<10	120	<0.5	<2	0.49	<0.5	8	22	83	2.16
ZZ68641		0.46	0.005	0.3	1.50	6	<10	250	<0.5	2	0.62	<0.5	12	31	174	2.74
ZZ68642		0.34	0.004	<0.2	1.41	5	<10	210	<0.5	<2	0.58	<0.5	21	38	77	3.31
ZZ68643		0.31	0.005	<0.2	1.21	3	<10	130	<0.5	<2	0.46	<0.5	9	26	78	2.39
ZZ68644		0.28	0.003	0.2	1.80	4	<10	210	0.5	<2	0.46	<0.5	10	31	248	2.87
ZZ68645		0.31	0.001	<0.2	1.37	5	<10	250	<0.5	<2	0.48	<0.5	12	31	42	2.47
ZZ68646		0.29	0.012	0.2	1.39	4	<10	170	<0.5	<2	0.42	<0.5	7	26	46	2.22

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 25-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14107850

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
ZZ68615		10	<1	0.06	10	0.55	194	2	0.02	13	780	5	0.04	<2	3	36
ZZ68616		10	<1	0.14	10	0.82	473	3	0.03	21	770	7	0.03	<2	6	37
ZZ68617		10	<1	0.07	10	0.61	509	2	0.02	14	910	7	0.03	<2	4	35
ZZ68618		10	<1	0.07	10	0.70	365	2	0.03	19	900	5	0.02	<2	5	39
ZZ68619		10	<1	0.11	10	0.72	332	1	0.03	22	750	4	0.01	<2	4	30
ZZ68620		10	<1	0.07	10	0.67	345	3	0.02	18	780	5	0.02	<2	4	21
ZZ68621		<10	<1	0.06	10	0.33	84	1	0.03	11	860	4	0.10	<2	5	34
ZZ68622		10	<1	0.12	10	0.83	631	10	0.03	18	1190	5	0.01	<2	5	45
ZZ68623		<10	<1	0.04	10	0.40	126	1	0.03	9	960	3	0.09	<2	3	44
ZZ68624		<10	<1	0.07	10	0.54	212	3	0.03	15	800	3	0.05	<2	5	48
ZZ68625		10	<1	0.07	10	0.87	171	2	0.04	20	960	6	0.06	<2	7	55
ZZ68626		10	<1	0.08	10	0.69	598	4	0.02	22	680	6	0.03	<2	6	40
ZZ68627		10	<1	0.09	10	0.51	318	2	0.02	12	450	5	0.01	<2	4	28
ZZ68628		10	<1	0.05	10	0.25	224	4	0.02	6	300	7	0.01	<2	2	34
ZZ68629		10	<1	0.10	20	0.99	1135	8	0.03	22	2110	5	0.11	<2	8	61
ZZ68630		10	<1	0.08	10	0.73	269	1	0.03	20	1080	5	0.04	<2	6	46
ZZ68631		10	<1	0.10	10	0.55	155	1	0.03	15	820	4	0.02	<2	3	28
ZZ68632		10	<1	0.09	10	0.61	306	2	0.03	17	960	7	0.01	<2	4	36
ZZ68633		10	<1	0.16	20	0.63	223	2	0.03	17	1040	5	0.01	<2	5	31
ZZ68634		<10	<1	0.13	10	0.57	145	4	0.04	11	750	5	0.02	<2	3	27
ZZ68635		<10	<1	0.07	10	0.72	208	1	0.04	21	1070	5	0.01	<2	4	42
ZZ68636		<10	<1	0.07	10	0.39	188	1	0.02	12	670	5	0.01	<2	3	26
ZZ68637		10	<1	0.09	10	0.47	174	2	0.02	11	460	6	0.01	<2	3	31
ZZ68638		10	<1	0.06	10	0.56	245	4	0.03	12	850	4	0.03	<2	3	32
ZZ68639		<10	<1	0.06	10	0.60	282	1	0.02	14	680	6	0.02	<2	4	31
ZZ68640		<10	<1	0.08	10	0.45	267	2	0.03	12	1160	5	<0.01	<2	3	24
ZZ68641		<10	<1	0.14	20	0.63	372	3	0.03	18	1090	5	0.01	<2	5	31
ZZ68642		10	<1	0.07	10	0.75	1630	4	0.03	13	1050	4	0.03	<2	4	33
ZZ68643		<10	<1	0.09	10	0.55	272	2	0.03	15	650	4	0.01	<2	3	28
ZZ68644		<10	<1	0.14	10	0.75	268	3	0.03	21	680	5	0.01	<2	5	28
ZZ68645		10	<1	0.07	10	0.63	656	4	0.03	14	510	4	0.02	<2	4	33
ZZ68646		10	<1	0.08	10	0.56	196	3	0.02	12	520	4	0.02	<2	4	32

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ALS Canada Ltd.
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To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 25-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14107850

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
ZZ68615		<20	0.08	<10	<10	55	<10	41
ZZ68616		<20	0.14	<10	<10	81	<10	65
ZZ68617		<20	0.10	<10	<10	64	<10	47
ZZ68618		<20	0.10	<10	<10	60	<10	53
ZZ68619		<20	0.13	<10	<10	65	<10	52
ZZ68620		<20	0.10	<10	<10	61	<10	53
ZZ68621		<20	0.06	<10	<10	36	<10	37
ZZ68622		<20	0.14	<10	<10	75	<10	84
ZZ68623		<20	0.05	<10	<10	35	<10	39
ZZ68624		<20	0.07	<10	<10	43	<10	75
ZZ68625		<20	0.12	<10	<10	78	<10	81
ZZ68626		<20	0.09	<10	<10	65	<10	87
ZZ68627		<20	0.10	<10	<10	63	<10	52
ZZ68628		<20	0.10	<10	<10	54	<10	25
ZZ68629		<20	0.13	<10	10	126	<10	94
ZZ68630		<20	0.09	<10	<10	62	<10	77
ZZ68631		<20	0.10	<10	<10	49	<10	38
ZZ68632		<20	0.09	<10	<10	65	<10	40
ZZ68633		<20	0.12	<10	<10	58	<10	44
ZZ68634		<20	0.12	<10	<10	58	<10	38
ZZ68635		<20	0.13	<10	<10	66	<10	47
ZZ68636		<20	0.10	<10	<10	50	<10	30
ZZ68637		<20	0.11	<10	<10	63	<10	35
ZZ68638		<20	0.09	<10	<10	58	<10	48
ZZ68639		<20	0.10	<10	<10	47	<10	37
ZZ68640		<20	0.09	<10	<10	64	<10	31
ZZ68641		<20	0.11	<10	<10	71	10	43
ZZ68642		<20	0.15	<10	<10	88	<10	52
ZZ68643		<20	0.10	<10	<10	63	<10	42
ZZ68644		<20	0.12	<10	<10	67	<10	47
ZZ68645		<20	0.13	<10	<10	70	<10	52
ZZ68646		<20	0.13	<10	<10	68	<10	39

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 25-JUL-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14107850

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-ICP41

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-AUG-2014
Account: MTT

CERTIFICATE WH14117465

Project: HOPPER

This report is for 144 Soil samples submitted to our lab in Whitehorse, YT, Canada on 8-AUG-2014.

The following have access to data associated with this certificate:

HEATHER BURRELL	SARAH DRECHSLER	JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

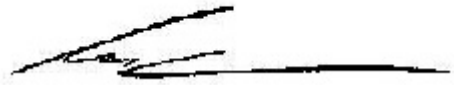
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **STRATEGIC METALS LTD.**
ATTN: JOAN MARIACHER
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14117465

Sample Description	Method	WEI-21	Au-AA24	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
DD019151		0.51	<0.005	<0.2	1.64	8	<10	270	0.5	2	0.62	<0.5	7	31	165	2.93
DD019152		0.33	<0.005	0.2	1.86	5	<10	360	0.5	2	0.65	<0.5	6	31	239	1.77
DD019153		0.35	<0.005	<0.2	1.77	3	<10	300	<0.5	2	0.59	<0.5	7	31	123	2.35
DD019154		0.37	<0.005	<0.2	1.30	4	<10	120	<0.5	<2	0.66	<0.5	8	29	22	2.07
DD019155		0.29	<0.005	<0.2	1.53	4	<10	140	<0.5	3	0.61	<0.5	8	30	38	2.22
DD019156		0.35	0.006	<0.2	1.67	4	<10	140	<0.5	<2	0.47	<0.5	9	29	121	2.44
DD019157		0.37	<0.005	<0.2	2.03	6	<10	220	0.5	<2	0.49	<0.5	9	33	75	2.80
DD019158		0.37	<0.005	<0.2	1.71	5	<10	190	<0.5	3	0.50	<0.5	9	30	48	2.49
DD019159		0.40	<0.005	<0.2	1.95	5	<10	210	<0.5	2	0.47	<0.5	9	36	43	2.52
DD019160		0.28	<0.005	<0.2	2.20	5	<10	150	0.5	<2	0.42	<0.5	12	36	23	2.81
DD019161		0.34	<0.005	<0.2	1.83	6	<10	180	<0.5	<2	0.42	<0.5	10	31	89	2.49
DD019162		0.31	<0.005	<0.2	2.20	8	<10	160	<0.5	<2	0.35	<0.5	10	38	37	2.91
DD019163		0.27	<0.005	<0.2	1.65	4	<10	150	<0.5	<2	0.29	<0.5	7	29	30	2.43
DD019164		0.27	<0.005	<0.2	2.13	9	<10	150	<0.5	<2	0.33	<0.5	10	37	26	2.89
DD019165		0.29	<0.005	<0.2	1.42	5	<10	120	<0.5	<2	0.36	<0.5	8	28	71	2.18
DD019166		0.35	<0.005	<0.2	1.79	6	<10	150	0.5	<2	0.34	<0.5	8	29	40	2.57
DD019167		0.35	<0.005	<0.2	1.86	7	<10	150	<0.5	<2	0.38	<0.5	8	34	20	2.78
DD019168		0.26	<0.005	<0.2	1.41	5	<10	140	<0.5	<2	0.42	<0.5	7	26	42	1.99
DD019169		0.33	<0.005	<0.2	1.68	5	<10	150	<0.5	<2	0.43	<0.5	10	33	36	2.54
DD019170		0.30	<0.005	<0.2	2.03	8	<10	190	<0.5	<2	0.38	<0.5	10	37	59	2.88
DD019171		0.26	<0.005	0.2	2.44	8	<10	150	0.5	<2	0.43	<0.5	10	39	41	2.85
DD019172		0.36	<0.005	<0.2	2.03	7	<10	150	<0.5	<2	0.41	<0.5	10	37	23	2.90
DD019173		0.40	<0.005	<0.2	1.86	6	<10	130	<0.5	<2	0.35	<0.5	10	37	37	2.68
DD019174		0.47	0.014	<0.2	1.55	6	<10	170	<0.5	<2	0.48	<0.5	13	41	64	2.87
DD019175		0.39	0.010	<0.2	1.76	8	<10	250	<0.5	<2	0.50	<0.5	12	38	46	2.72
DD019176		0.35	<0.005	0.2	1.88	7	<10	190	0.5	<2	0.52	<0.5	11	36	70	2.93
DD019177		0.36	0.008	<0.2	1.55	6	<10	170	<0.5	<2	0.45	<0.5	9	36	126	2.71
DD019178		0.38	<0.005	<0.2	1.86	5	<10	170	0.5	<2	0.54	<0.5	14	34	163	3.22
DD019179		0.32	<0.005	<0.2	0.85	3	<10	120	<0.5	<2	0.50	<0.5	7	14	131	1.76
DD019180		0.41	<0.005	<0.2	1.88	7	<10	170	<0.5	<2	0.44	<0.5	9	38	29	2.64
DD019181		0.28	<0.005	0.2	2.43	10	<10	190	0.6	<2	0.40	<0.5	11	38	24	3.11
DD019182		0.30	<0.005	0.2	2.35	7	<10	180	0.5	<2	0.43	<0.5	9	38	21	2.80
DD019183		0.35	0.005	<0.2	1.85	6	<10	200	<0.5	<2	0.52	<0.5	8	33	37	2.50
DD019184		0.30	<0.005	0.2	2.20	6	<10	240	0.5	<2	0.52	<0.5	9	40	36	2.95
DD019185		0.38	<0.005	<0.2	1.94	8	<10	260	<0.5	<2	0.47	<0.5	11	35	57	2.85
DD019186		0.33	<0.005	<0.2	1.63	6	<10	150	<0.5	<2	0.38	<0.5	8	29	27	2.25
DD019187		0.36	0.005	<0.2	1.71	7	<10	160	<0.5	<2	0.49	<0.5	8	33	27	2.66
DD019188		0.32	<0.005	<0.2	1.74	6	<10	150	<0.5	<2	0.47	<0.5	10	36	28	2.69
DD019189		0.33	<0.005	<0.2	1.47	3	<10	210	<0.5	<2	0.54	<0.5	10	28	53	2.35
DD019190		0.34	<0.005	0.2	2.00	6	<10	310	0.5	<2	0.74	<0.5	12	42	113	3.05

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-AUG-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14117465

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
DD019151		10	<1	0.19	20	0.65	197	31	0.04	15	1030	6	0.03	<2	6	34
DD019152		10	<1	0.18	20	0.58	163	8	0.04	16	1040	3	0.08	<2	7	40
DD019153		10	<1	0.12	10	0.60	190	16	0.04	16	1180	5	0.03	<2	5	36
DD019154		<10	<1	0.10	10	0.58	313	<1	0.05	15	1110	4	0.01	<2	4	43
DD019155		10	<1	0.09	10	0.64	313	<1	0.04	17	1060	5	0.01	<2	5	40
DD019156		10	<1	0.15	20	0.69	237	1	0.03	15	1010	4	0.02	<2	4	24
DD019157		10	<1	0.14	10	0.71	343	1	0.03	18	620	4	0.02	<2	5	30
DD019158		10	<1	0.09	10	0.66	320	1	0.03	15	670	4	0.02	<2	4	32
DD019159		10	<1	0.11	10	0.70	349	1	0.04	18	640	4	0.02	<2	5	30
DD019160		10	<1	0.11	10	0.68	394	1	0.03	16	480	7	0.01	<2	5	28
DD019161		10	<1	0.20	10	0.67	326	<1	0.03	20	780	4	0.02	<2	4	22
DD019162		10	<1	0.13	10	0.75	297	1	0.03	19	480	5	0.02	<2	5	24
DD019163		10	<1	0.08	10	0.48	245	1	0.03	11	370	6	0.02	<2	4	26
DD019164		10	<1	0.13	10	0.68	272	<1	0.02	20	420	7	0.01	<2	5	22
DD019165		<10	<1	0.07	10	0.52	219	<1	0.02	16	720	3	0.01	<2	3	19
DD019166		10	<1	0.08	10	0.50	242	<1	0.02	15	600	5	0.01	<2	4	24
DD019167		10	<1	0.09	10	0.67	259	<1	0.02	16	310	4	0.01	<2	4	23
DD019168		<10	<1	0.07	10	0.52	210	<1	0.03	13	810	2	0.03	<2	3	27
DD019169		10	<1	0.11	10	0.61	310	<1	0.02	19	760	4	0.01	<2	4	23
DD019170		10	<1	0.09	10	0.66	312	<1	0.02	20	470	5	0.01	<2	5	27
DD019171		10	<1	0.09	10	0.72	263	<1	0.02	22	390	5	0.02	<2	5	29
DD019172		10	<1	0.11	10	0.69	269	<1	0.02	21	470	4	0.01	<2	5	27
DD019173		<10	<1	0.08	10	0.63	254	<1	0.02	21	560	4	0.01	<2	4	22
DD019174		10	<1	0.11	20	0.70	337	1	0.03	22	910	4	<0.01	<2	4	22
DD019175		10	1	0.11	10	0.73	432	<1	0.03	24	510	5	0.02	<2	4	31
DD019176		10	<1	0.08	10	0.66	392	<1	0.02	17	760	4	0.05	<2	5	36
DD019177		10	<1	0.11	10	0.68	297	<1	0.02	18	640	5	0.01	<2	5	27
DD019178		10	<1	0.11	10	0.89	396	1	0.02	21	950	7	0.02	<2	5	30
DD019179		<10	1	0.04	10	0.31	278	<1	0.03	8	770	2	0.05	<2	2	35
DD019180		10	<1	0.12	10	0.72	300	<1	0.02	23	750	5	0.01	<2	4	27
DD019181		10	<1	0.13	10	0.73	378	<1	0.02	19	520	7	0.01	<2	5	29
DD019182		10	1	0.10	10	0.70	295	<1	0.02	19	440	6	0.01	<2	5	31
DD019183		10	<1	0.10	10	0.68	292	<1	0.02	16	510	5	0.01	<2	4	28
DD019184		10	1	0.12	10	0.75	356	<1	0.02	20	440	5	0.01	<2	6	34
DD019185		10	<1	0.14	10	0.74	459	<1	0.03	22	460	6	0.01	<2	5	27
DD019186		<10	<1	0.10	10	0.60	265	<1	0.02	17	390	3	0.01	<2	4	23
DD019187		10	<1	0.12	10	0.70	296	<1	0.02	18	510	5	0.01	<2	4	27
DD019188		10	<1	0.15	10	0.75	422	<1	0.02	20	520	5	0.01	<2	4	27
DD019189		10	1	0.09	10	0.58	473	1	0.03	13	900	3	0.04	<2	3	32
DD019190		10	<1	0.13	10	0.83	597	1	0.02	21	1190	6	0.03	2	5	44

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
DD019151		<20	0.13	<10	<10	60	<10	68
DD019152		<20	0.10	<10	10	54	<10	88
DD019153		<20	0.10	<10	<10	56	<10	68
DD019154		<20	0.13	<10	<10	52	<10	42
DD019155		<20	0.14	<10	<10	55	<10	43
DD019156		<20	0.14	<10	<10	60	<10	38
DD019157		<20	0.13	<10	<10	67	<10	52
DD019158		<20	0.12	<10	<10	60	<10	46
DD019159		<20	0.13	<10	<10	60	<10	45
DD019160		<20	0.14	<10	<10	72	<10	55
DD019161		<20	0.13	<10	<10	59	<10	38
DD019162		<20	0.14	<10	<10	70	<10	52
DD019163		<20	0.13	<10	<10	72	<10	41
DD019164		<20	0.16	<10	<10	74	<10	45
DD019165		<20	0.11	<10	<10	56	<10	29
DD019166		<20	0.12	<10	<10	63	<10	38
DD019167		<20	0.15	<10	<10	71	<10	43
DD019168		<20	0.10	<10	<10	52	<10	35
DD019169		<20	0.13	<10	<10	62	<10	38
DD019170		<20	0.14	<10	<10	74	<10	49
DD019171		<20	0.15	<10	<10	71	<10	46
DD019172		<20	0.15	<10	<10	72	<10	46
DD019173		<20	0.13	<10	<10	68	<10	36
DD019174		<20	0.14	<10	<10	71	<10	38
DD019175		<20	0.14	<10	<10	65	<10	48
DD019176		<20	0.12	<10	<10	73	<10	42
DD019177		<20	0.15	<10	<10	72	<10	42
DD019178		<20	0.17	<10	<10	89	<10	65
DD019179		<20	0.09	<10	<10	52	<10	31
DD019180		<20	0.15	<10	<10	66	<10	45
DD019181		<20	0.16	<10	<10	76	<10	59
DD019182		<20	0.15	<10	<10	71	<10	51
DD019183		<20	0.14	<10	<10	65	<10	46
DD019184		<20	0.15	<10	<10	75	<10	54
DD019185		<20	0.15	<10	<10	67	<10	52
DD019186		<20	0.12	<10	<10	53	<10	42
DD019187		<20	0.13	<10	<10	64	<10	52
DD019188		<20	0.16	<10	<10	68	<10	54
DD019189		<20	0.10	<10	<10	61	<10	52
DD019190		<20	0.12	<10	<10	73	<10	83

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Sample Description	Method	WEI-21	Au-AA24	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
DD019191		0.28	<0.005	<0.2	2.41	6	<10	350	0.6	<2	0.74	<0.5	16	42	132	2.80
DD019192		0.24	0.005	0.3	2.38	4	<10	440	0.7	<2	0.78	<0.5	9	38	202	2.10
DD019193		0.33	<0.005	<0.2	1.74	5	<10	190	<0.5	<2	0.57	<0.5	11	36	69	2.95
DD019194		0.39	<0.005	<0.2	1.90	5	<10	220	0.5	<2	0.58	<0.5	9	33	90	2.52
DD019195		0.17	<0.005	0.2	1.46	2	<10	270	<0.5	<2	0.59	<0.5	6	24	89	1.69
DD019196		0.29	<0.005	<0.2	2.39	8	<10	350	0.7	<2	0.78	<0.5	11	41	189	3.69
DD019197		0.22	<0.005	<0.2	1.83	3	<10	270	<0.5	<2	0.75	<0.5	8	36	76	2.54
DD019198		0.33	<0.005	<0.2	1.86	6	<10	300	<0.5	<2	0.82	<0.5	7	35	100	2.32
DD019199		0.36	<0.005	<0.2	1.56	4	<10	140	<0.5	<2	0.42	<0.5	9	26	22	2.27
DD019200		0.37	<0.005	<0.2	1.65	8	<10	190	<0.5	<2	0.86	<0.5	10	35	34	2.68
DD019396		0.47	0.010	0.3	1.85	6	<10	340	<0.5	<2	0.94	<0.5	13	43	301	3.28
DD019397		0.26	<0.005	<0.2	1.88	3	<10	320	<0.5	<2	0.92	<0.5	8	40	109	2.43
DD019398		0.32	<0.005	0.3	2.33	7	<10	510	0.7	<2	0.76	<0.5	14	42	158	3.17
DD019399		0.32	<0.005	<0.2	1.64	7	<10	130	<0.5	<2	0.40	<0.5	9	37	35	2.62
ZZ43096		0.33	<0.005	<0.2	1.82	11	<10	200	0.5	<2	0.38	<0.5	9	50	43	2.48
ZZ43097		0.37	0.029	0.2	1.88	6	<10	240	<0.5	<2	0.48	<0.5	12	35	41	2.58
ZZ43098		0.29	<0.005	<0.2	1.96	6	<10	200	<0.5	<2	0.50	<0.5	9	36	30	2.60
ZZ43099		0.35	<0.005	<0.2	1.79	6	<10	180	<0.5	<2	0.44	<0.5	9	33	23	2.55
DD001981		0.33	<0.005	<0.2	1.98	6	<10	140	<0.5	<2	0.31	<0.5	8	30	16	2.66
DD001982		0.38	<0.005	<0.2	1.71	6	<10	190	<0.5	<2	0.58	<0.5	10	35	45	2.64
DD001983		0.45	<0.005	<0.2	1.58	7	<10	170	<0.5	<2	0.49	<0.5	7	31	69	2.44
DD001984		0.31	0.009	<0.2	1.28	4	<10	130	<0.5	<2	0.37	<0.5	6	23	21	1.94
DD019046		0.39	<0.005	<0.2	1.47	6	<10	180	<0.5	<2	0.48	<0.5	8	29	27	2.33
DD019047		0.31	<0.005	<0.2	1.88	7	<10	140	<0.5	<2	0.44	<0.5	9	35	16	2.88
DD019048		0.32	<0.005	<0.2	2.22	8	<10	190	0.6	<2	0.41	<0.5	12	40	38	2.82
DD019049		0.27	<0.005	0.2	1.74	5	<10	130	<0.5	<2	0.30	<0.5	12	31	17	2.60
DD019050		0.28	<0.005	<0.2	1.84	5	<10	170	<0.5	<2	0.46	<0.5	6	31	12	2.31
DD019051		0.31	<0.005	<0.2	2.34	7	<10	120	0.5	<2	0.34	<0.5	10	37	46	2.74
DD019052		0.37	<0.005	0.2	2.31	7	<10	200	0.5	<2	0.57	<0.5	11	41	55	3.09
DD019053		0.33	<0.005	<0.2	2.17	11	<10	310	0.5	<2	0.65	<0.5	14	40	43	2.90
DD019054		0.34	0.027	<0.2	1.78	7	<10	130	<0.5	<2	0.50	<0.5	9	29	26	2.12
DD019055		0.39	0.006	<0.2	2.16	6	<10	170	0.6	<2	0.40	<0.5	11	36	39	2.57
DD019056		0.34	0.011	<0.2	1.86	5	<10	250	<0.5	<2	0.63	<0.5	8	35	71	2.54
DD019057		0.27	0.006	<0.2	2.11	8	<10	290	0.5	<2	0.88	<0.5	12	42	144	3.30
DD019058		0.30	<0.005	<0.2	2.09	8	<10	100	<0.5	<2	0.26	<0.5	12	76	128	3.49
DD019059		0.38	<0.005	<0.2	2.02	7	<10	190	0.5	<2	0.39	<0.5	20	62	57	2.76
DD019060		0.37	<0.005	0.2	2.04	6	<10	340	0.5	<2	0.76	<0.5	11	45	189	2.76
DD019061		0.31	<0.005	<0.2	2.05	8	<10	210	0.5	<2	0.85	<0.5	13	44	47	3.09
DD019062		0.34	0.007	0.2	2.03	6	<10	250	0.5	<2	0.91	<0.5	12	41	154	2.90
DD019063		0.30	0.006	<0.2	2.28	4	<10	200	0.7	<2	0.60	<0.5	14	42	383	3.07

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **STRATEGIC METALS LTD.**
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-AUG-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14117465

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
DD019191		10	<1	0.16	20	0.90	452	<1	0.02	23	1140	6	0.05	<2	6	45
DD019192		10	<1	0.17	30	0.76	196	<1	0.03	20	1140	5	0.07	<2	9	45
DD019193		10	<1	0.12	10	0.79	339	<1	0.03	16	840	5	0.01	<2	5	32
DD019194		10	<1	0.12	10	0.79	258	<1	0.03	17	910	3	0.01	<2	6	35
DD019195		<10	<1	0.07	10	0.43	165	<1	0.04	11	890	2	0.07	<2	4	39
DD019196		10	1	0.11	20	0.93	236	2	0.02	19	1130	5	0.04	<2	8	48
DD019197		10	<1	0.11	20	0.62	190	<1	0.03	15	1150	4	0.04	<2	6	45
DD019198		10	<1	0.14	20	0.66	228	4	0.04	16	1130	5	0.03	<2	6	50
DD019199		10	<1	0.09	10	0.48	292	<1	0.03	13	560	5	0.01	2	3	24
DD019200		<10	<1	0.20	10	0.69	407	<1	0.04	23	1230	6	<0.01	<2	6	47
DD019396		10	<1	0.30	20	1.05	380	5	0.02	20	1270	4	0.04	<2	7	53
DD019397		10	<1	0.12	10	0.74	191	1	0.03	19	1290	3	0.07	<2	5	50
DD019398		10	1	0.12	20	0.83	644	<1	0.03	29	900	8	0.03	<2	6	59
DD019399		10	<1	0.12	10	0.74	266	<1	0.02	25	510	5	0.01	<2	4	22
ZZ43096		<10	<1	0.12	10	0.69	311	<1	0.02	34	430	5	0.02	<2	4	26
ZZ43097		10	<1	0.11	10	0.67	695	<1	0.02	19	570	6	0.02	<2	4	32
ZZ43098		10	<1	0.12	10	0.72	333	<1	0.02	19	640	4	0.01	<2	4	30
ZZ43099		10	<1	0.11	10	0.69	353	<1	0.02	19	650	4	0.01	<2	4	26
DD001981		10	1	0.10	10	0.53	276	<1	0.02	15	450	6	0.01	<2	4	27
DD001982		<10	<1	0.11	10	0.70	403	3	0.03	22	540	5	0.03	<2	4	35
DD001983		10	1	0.12	10	0.68	246	2	0.02	18	470	5	0.02	2	4	28
DD001984		10	<1	0.08	10	0.40	284	<1	0.02	12	630	4	0.03	<2	2	27
DD019046		<10	<1	0.13	10	0.64	277	<1	0.02	19	500	5	0.01	<2	4	29
DD019047		10	1	0.13	10	0.73	291	1	0.02	19	350	4	0.01	<2	4	29
DD019048		10	<1	0.13	10	0.72	370	<1	0.02	28	610	7	0.01	<2	5	28
DD019049		10	<1	0.09	10	0.46	621	1	0.02	12	380	7	0.01	<2	4	25
DD019050		10	<1	0.09	10	0.59	194	<1	0.02	15	300	6	0.01	<2	4	29
DD019051		10	<1	0.10	10	0.70	247	<1	0.02	21	180	4	<0.01	<2	5	24
DD019052		10	<1	0.12	10	0.80	311	<1	0.02	26	580	5	0.01	<2	6	32
DD019053		10	1	0.10	10	0.69	888	2	0.03	25	590	5	0.01	<2	6	40
DD019054		<10	<1	0.11	10	0.55	303	<1	0.03	21	950	4	0.01	<2	4	28
DD019055		10	1	0.11	10	0.71	258	1	0.02	26	670	4	0.01	<2	4	24
DD019056		10	<1	0.11	10	0.78	238	14	0.02	27	430	4	0.02	<2	4	39
DD019057		10	<1	0.13	10	0.88	320	29	0.04	27	850	5	0.03	<2	6	66
DD019058		10	<1	0.16	10	0.90	236	1	0.02	53	230	5	0.06	<2	4	25
DD019059		10	<1	0.08	10	0.93	430	1	0.02	155	220	5	0.02	<2	5	32
DD019060		10	<1	0.18	20	0.86	310	1	0.03	42	460	5	0.02	<2	6	41
DD019061		10	<1	0.17	20	0.87	453	4	0.04	27	1030	7	0.02	<2	6	52
DD019062		10	<1	0.10	20	0.78	326	20	0.03	26	1080	7	0.05	2	5	58
DD019063		10	<1	0.24	20	0.79	423	10	0.03	28	800	6	0.02	<2	6	44

***** See Appendix Page for comments regarding this certificate *****

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To: **STRATEGIC METALS LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-AUG-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14117465

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
DD019191		<20	0.13	<10	<10	75	<10	64
DD019192		<20	0.12	<10	<10	62	<10	58
DD019193		<20	0.17	<10	<10	70	<10	44
DD019194		<20	0.16	<10	<10	63	<10	45
DD019195		<20	0.09	<10	<10	42	<10	40
DD019196		<20	0.18	<10	10	86	<10	59
DD019197		<20	0.15	<10	10	63	<10	64
DD019198		<20	0.15	<10	<10	62	<10	78
DD019199		<20	0.13	<10	<10	61	<10	47
DD019200		<20	0.16	<10	<10	62	<10	61
DD019396		<20	0.18	<10	20	103	<10	69
DD019397		<20	0.12	<10	10	63	<10	72
DD019398		<20	0.13	<10	10	75	<10	61
DD019399		<20	0.16	<10	<10	59	<10	56
ZZ43096		<20	0.12	<10	<10	55	<10	48
ZZ43097		<20	0.11	<10	<10	62	<10	51
ZZ43098		<20	0.12	<10	<10	63	<10	49
ZZ43099		<20	0.11	<10	<10	61	<10	45
DD001981		<20	0.13	<10	<10	74	<10	46
DD001982		<20	0.12	<10	<10	59	<10	54
DD001983		<20	0.13	<10	<10	59	<10	54
DD001984		<20	0.10	<10	<10	53	<10	35
DD019046		<20	0.12	<10	<10	53	<10	44
DD019047		<20	0.16	<10	<10	69	<10	52
DD019048		<20	0.15	<10	<10	65	<10	48
DD019049		<20	0.14	<10	<10	66	<10	41
DD019050		<20	0.15	<10	<10	64	<10	40
DD019051		<20	0.15	<10	<10	72	<10	45
DD019052		<20	0.15	<10	<10	77	<10	52
DD019053		<20	0.15	<10	<10	70	<10	71
DD019054		<20	0.13	<10	<10	51	<10	35
DD019055		<20	0.13	<10	<10	52	<10	39
DD019056		<20	0.14	<10	<10	62	<10	58
DD019057		<20	0.14	<10	10	61	<10	61
DD019058		<20	0.22	<10	<10	80	<10	52
DD019059		<20	0.14	<10	<10	59	<10	37
DD019060		<20	0.14	<10	<10	57	<10	43
DD019061		<20	0.16	<10	<10	68	<10	61
DD019062		<20	0.12	<10	10	63	<10	55
DD019063		<20	0.14	<10	<10	60	<10	80

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To: **STRATEGIC METALS LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-AUG-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14117465

Sample Description	Method	WEI-21	Au-AA24	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
DD019064		0.33	<0.005	<0.2	1.66	5	<10	250	<0.5	<2	1.18	<0.5	9	36	130	2.45
DD019065		0.36	<0.005	<0.2	1.89	3	<10	160	<0.5	<2	0.50	<0.5	11	44	78	2.75
DD019066		0.43	<0.005	0.2	1.31	4	<10	200	<0.5	<2	0.76	<0.5	7	27	48	1.88
DD019067		0.37	<0.005	<0.2	1.80	8	<10	210	<0.5	<2	0.78	<0.5	11	41	49	2.94
DD019068		0.38	<0.005	<0.2	1.82	8	<10	260	0.5	<2	1.00	<0.5	12	41	39	2.78
DD019069		0.31	<0.005	<0.2	1.70	7	<10	230	<0.5	<2	0.95	<0.5	10	36	33	2.66
DD019070		0.40	<0.005	<0.2	1.77	5	<10	260	0.5	2	0.99	<0.5	12	42	49	2.52
DD019071		0.31	<0.005	<0.2	1.59	4	<10	200	<0.5	2	0.75	<0.5	8	34	30	2.39
DD019072		0.30	<0.005	0.2	1.82	4	<10	270	0.5	2	1.19	<0.5	8	41	51	2.01
DD019073		0.32	<0.005	<0.2	1.28	3	<10	250	<0.5	<2	0.91	<0.5	8	28	73	1.64
DD019074		0.32	<0.005	<0.2	1.67	4	<10	230	<0.5	<2	0.79	<0.5	9	37	68	2.42
DD019075		0.29	<0.005	<0.2	1.71	3	<10	290	<0.5	4	1.09	<0.5	10	38	110	2.54
DD019076		0.34	<0.005	<0.2	1.79	4	<10	170	<0.5	3	0.42	<0.5	9	40	70	2.53
DD019077		0.29	0.005	<0.2	1.88	5	<10	210	0.5	2	0.93	<0.5	13	45	93	3.04
DD019078		0.27	<0.005	<0.2	1.69	5	<10	180	<0.5	2	0.71	<0.5	10	39	44	2.52
DD019079		0.26	<0.005	<0.2	2.00	5	<10	210	<0.5	2	0.71	<0.5	12	45	46	2.72
DD019080		0.32	<0.005	<0.2	1.80	6	<10	190	<0.5	2	0.41	<0.5	10	37	51	2.40
DD019081		0.30	0.006	0.2	2.21	8	<10	80	0.6	2	0.30	<0.5	10	48	51	3.12
DD019082		0.29	<0.005	<0.2	1.90	6	<10	260	0.5	<2	0.85	<0.5	14	56	128	2.90
DD019083		0.26	0.006	<0.2	1.76	5	<10	210	<0.5	<2	0.87	<0.5	11	37	343	2.98
DD019084		0.34	<0.005	<0.2	2.01	4	<10	170	<0.5	2	0.42	<0.5	10	40	28	2.64
DD019085		0.34	<0.005	<0.2	1.83	6	<10	190	0.5	<2	0.70	<0.5	10	39	108	2.53
DD019086		0.29	0.005	<0.2	1.91	5	<10	270	<0.5	<2	1.09	<0.5	10	45	60	2.76
DD019087		0.33	0.018	<0.2	2.46	9	<10	180	0.8	2	0.91	<0.5	29	197	197	5.44
DD019088		0.34	<0.005	<0.2	2.47	5	<10	220	0.6	2	0.39	<0.5	18	45	53	3.40
DD019089		0.41	0.023	0.2	2.54	9	<10	100	0.5	4	0.30	<0.5	14	46	155	3.49
DD019090		0.36	<0.005	0.3	2.96	5	<10	180	0.5	2	0.26	<0.5	13	72	150	3.64
DD019091		0.42	0.014	0.5	2.16	6	<10	230	0.6	<2	0.76	<0.5	15	48	358	3.00
DD019092		0.32	0.010	0.5	2.84	22	<10	470	1.2	3	1.61	0.9	24	47	518	4.97
DD019093		0.32	<0.005	<0.2	2.00	7	<10	220	0.5	<2	0.43	<0.5	11	41	48	2.68
DD019094		0.36	<0.005	<0.2	1.87	6	<10	150	<0.5	2	0.50	<0.5	9	35	18	2.63
DD019095		0.45	<0.005	<0.2	1.60	3	<10	250	<0.5	<2	0.79	<0.5	11	45	100	2.40
DD019096		0.27	<0.005	0.2	2.03	5	<10	240	0.5	<2	0.72	<0.5	10	42	108	2.72
DD019097		0.29	0.005	<0.2	2.03	6	<10	120	0.6	<2	0.38	<0.5	17	77	152	2.63
DD019098		0.33	<0.005	<0.2	2.20	6	<10	370	<0.5	<2	0.74	<0.5	11	50	58	3.06
DD019099		0.29	<0.005	<0.2	1.89	5	<10	340	<0.5	<2	1.13	<0.5	10	41	82	2.93
DD019100		0.21	<0.005	<0.2	1.98	3	<10	350	0.5	<2	0.93	0.8	9	36	87	2.44
DD019101		0.30	<0.005	<0.2	1.63	3	<10	290	<0.5	2	0.85	<0.5	8	34	69	2.37
DD019102		0.29	<0.005	0.4	1.95	5	<10	340	0.5	<2	1.04	<0.5	18	43	122	3.32
DD019103		0.26	<0.005	<0.2	2.26	5	<10	170	0.5	3	0.50	<0.5	13	41	52	3.02

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Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
DD019064		10	1	0.15	20	0.69	305	6	0.04	19	1160	5	0.05	<2	5	62
DD019065		10	<1	0.10	20	0.80	324	<1	0.03	25	710	6	0.01	<2	5	30
DD019066		<10	<1	0.10	10	0.53	198	5	0.03	13	1070	4	0.03	<2	4	41
DD019067		10	<1	0.31	20	0.82	419	<1	0.05	25	1090	8	<0.01	<2	6	41
DD019068		10	<1	0.13	20	0.78	506	<1	0.03	23	950	6	0.04	<2	5	52
DD019069		10	1	0.17	20	0.69	354	1	0.03	20	790	7	0.06	<2	4	52
DD019070		10	1	0.21	20	0.74	271	1	0.03	24	940	7	0.07	<2	6	49
DD019071		10	<1	0.16	20	0.64	305	1	0.03	16	890	6	0.05	<2	4	44
DD019072		10	<1	0.20	20	0.72	259	6	0.03	21	970	8	0.14	<2	5	58
DD019073		<10	1	0.12	10	0.55	229	16	0.03	15	1020	5	0.10	<2	4	47
DD019074		10	1	0.09	20	0.70	229	3	0.03	20	1090	6	0.03	<2	5	44
DD019075		10	1	0.16	10	0.72	375	5	0.04	18	1100	6	0.05	<2	5	65
DD019076		10	<1	0.09	10	0.77	305	4	0.02	22	410	5	0.01	<2	4	28
DD019077		10	1	0.35	20	0.96	494	3	0.05	31	1180	10	0.01	<2	6	50
DD019078		10	<1	0.10	10	0.78	358	14	0.03	21	950	6	0.02	<2	5	42
DD019079		10	1	0.12	10	0.83	432	1	0.03	30	860	7	0.02	<2	5	43
DD019080		10	<1	0.07	10	0.65	368	1	0.02	18	300	5	0.01	<2	4	29
DD019081		10	1	0.17	10	0.81	203	2	0.02	28	210	8	0.02	<2	4	23
DD019082		10	<1	0.13	10	0.96	339	33	0.04	37	1060	7	0.02	<2	5	50
DD019083		10	<1	0.15	10	0.82	221	54	0.03	40	1080	3	0.04	<2	5	50
DD019084		10	<1	0.10	10	1.06	361	16	0.04	16	410	5	0.02	<2	6	30
DD019085		10	<1	0.10	10	0.86	249	12	0.03	25	920	5	0.03	<2	5	39
DD019086		10	1	0.07	10	0.73	216	68	0.03	18	1070	5	0.10	<2	5	61
DD019087		10	<1	0.10	10	1.60	600	16	0.03	131	2150	5	0.02	<2	6	42
DD019088		10	1	0.12	10	0.75	429	1	0.02	27	250	6	0.01	<2	5	30
DD019089		10	1	0.11	10	0.83	264	3	0.02	32	210	7	0.02	<2	5	22
DD019090		10	1	0.28	20	1.60	274	4	0.02	31	370	4	0.12	<2	8	36
DD019091		10	1	0.21	20	0.83	396	37	0.03	47	560	6	0.02	<2	7	38
DD019092		10	1	0.05	20	0.48	1065	172	0.03	31	5620	7	0.16	<2	8	77
DD019093		10	<1	0.12	10	0.81	310	1	0.03	26	620	5	0.01	<2	5	26
DD019094		10	<1	0.08	10	0.72	261	15	0.02	14	770	6	0.01	<2	5	28
DD019095		10	1	0.09	20	0.87	307	29	0.04	19	1260	4	0.02	<2	5	41
DD019096		10	1	0.10	10	0.81	254	5	0.03	25	930	7	0.03	<2	5	49
DD019097		10	1	0.10	10	0.99	248	2	0.03	111	730	4	0.02	<2	4	22
DD019098		10	1	0.14	10	0.95	413	10	0.03	27	440	8	0.02	<2	6	46
DD019099		10	1	0.12	10	0.87	490	19	0.04	21	1200	4	0.05	<2	5	65
DD019100		10	1	0.08	10	0.55	245	13	0.03	19	1050	5	0.11	<2	3	81
DD019101		10	1	0.12	10	0.63	239	3	0.03	19	450	5	0.03	<2	4	47
DD019102		10	1	0.11	20	0.79	619	6	0.03	24	740	9	0.04	<2	6	54
DD019103		10	1	0.12	10	0.82	550	4	0.03	22	490	7	0.01	<2	5	30

***** See Appendix Page for comments regarding this certificate *****

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To: **STRATEGIC METALS LTD.**
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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 22-AUG-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14117465

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
DD019064		<20	0.13	<10	10	53	<10	98
DD019065		<20	0.15	<10	<10	57	<10	48
DD019066		<20	0.12	<10	<10	47	<10	65
DD019067		<20	0.18	<10	<10	64	<10	68
DD019068		<20	0.14	<10	<10	58	<10	55
DD019069		<20	0.11	<10	<10	53	<10	62
DD019070		<20	0.14	<10	<10	58	<10	68
DD019071		<20	0.12	<10	<10	53	<10	69
DD019072		<20	0.13	<10	10	59	<10	93
DD019073		<20	0.11	<10	<10	51	<10	80
DD019074		<20	0.13	<10	<10	58	<10	50
DD019075		<20	0.13	<10	10	56	<10	92
DD019076		<20	0.14	<10	<10	60	<10	51
DD019077		<20	0.18	<10	<10	64	<10	74
DD019078		<20	0.14	<10	<10	58	<10	52
DD019079		<20	0.13	<10	<10	63	<10	54
DD019080		<20	0.13	<10	<10	68	<10	41
DD019081		<20	0.18	<10	<10	81	<10	44
DD019082		<20	0.14	<10	10	61	<10	54
DD019083		<20	0.15	<10	10	72	<10	51
DD019084		<20	0.17	<10	<10	68	<10	47
DD019085		<20	0.14	<10	<10	55	<10	43
DD019086		<20	0.13	<10	<10	65	<10	41
DD019087		<20	0.11	<10	<10	103	<10	57
DD019088		<20	0.15	<10	<10	87	<10	72
DD019089		<20	0.14	<10	<10	86	<10	59
DD019090		<20	0.27	<10	<10	83	<10	59
DD019091		<20	0.13	<10	<10	64	<10	55
DD019092		<20	0.07	<10	40	98	<10	48
DD019093		<20	0.13	<10	<10	60	<10	49
DD019094		<20	0.14	<10	<10	71	<10	44
DD019095		<20	0.13	<10	10	56	<10	56
DD019096		<20	0.12	<10	<10	61	<10	44
DD019097		<20	0.11	<10	<10	50	<10	37
DD019098		<20	0.15	<10	<10	65	<10	58
DD019099		<20	0.15	<10	10	61	10	64
DD019100		<20	0.09	<10	10	59	<10	57
DD019101		<20	0.11	<10	<10	53	<10	47
DD019102		<20	0.13	<10	<10	76	<10	80
DD019103		<20	0.15	<10	<10	70	<10	77

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Finalized Date: 22-AUG-2014
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Project: HOPPER

CERTIFICATE OF ANALYSIS WH14117465

Sample Description	Method	WEI-21	Au-AA24	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
DD019104		0.29	<0.005	<0.2	1.95	5	<10	180	<0.5	<2	0.52	<0.5	11	38	32	2.74
DD019105		0.25	<0.005	<0.2	1.42	4	<10	160	<0.5	<2	0.77	<0.5	8	30	30	2.13
DD019106		0.31	<0.005	<0.2	1.15	3	<10	130	<0.5	<2	0.57	<0.5	7	22	18	1.65
DD019107		0.32	0.010	<0.2	1.44	5	<10	180	<0.5	<2	0.84	<0.5	9	34	32	1.74
DD019108		0.26	<0.005	<0.2	0.61	2	<10	130	<0.5	<2	0.67	<0.5	3	8	33	0.96
DD019109		0.40	<0.005	<0.2	1.34	4	<10	130	<0.5	<2	0.49	<0.5	8	26	23	1.96
DD019110		0.27	<0.005	<0.2	1.16	3	<10	120	<0.5	<2	0.61	<0.5	7	26	24	1.89
DD019111		0.28	<0.005	<0.2	1.39	4	<10	130	<0.5	<2	0.70	<0.5	7	29	19	2.02
DD019112		0.28	<0.005	<0.2	1.37	4	<10	120	<0.5	<2	0.54	<0.5	7	29	21	2.00
DD019113		0.31	<0.005	<0.2	1.79	5	<10	180	<0.5	<2	0.36	<0.5	9	33	55	2.48
DD019114		0.27	<0.005	<0.2	1.72	4	<10	230	<0.5	<2	0.95	<0.5	9	35	43	2.39
DD019115		0.26	<0.005	<0.2	1.34	5	<10	290	<0.5	<2	0.94	<0.5	6	27	57	1.68
DD019116		0.25	0.007	0.2	1.67	6	<10	330	0.5	<2	1.61	<0.5	9	41	312	2.24
DD019117		0.27	<0.005	<0.2	1.87	6	<10	290	<0.5	<2	0.58	<0.5	10	38	38	2.75
DD019118		0.39	0.009	<0.2	1.89	5	<10	140	0.5	<2	0.79	<0.5	14	52	247	2.93
DD019119		0.31	0.005	0.2	2.13	7	<10	100	0.7	<2	0.31	<0.5	13	47	183	2.94
DD019120		0.19	<0.005	<0.2	1.29	5	<10	580	<0.5	<2	1.91	<0.5	6	30	263	1.69
DD019121		0.24	<0.005	0.2	1.94	7	<10	180	<0.5	<2	0.44	<0.5	9	35	41	2.61
DD019122		0.26	<0.005	0.2	2.10	9	<10	150	0.5	<2	0.35	<0.5	12	42	50	2.83
DD019123		0.30	<0.005	<0.2	1.97	7	<10	200	<0.5	<2	0.68	<0.5	13	45	52	2.80
DD019124		0.26	0.013	<0.2	1.96	8	<10	130	0.5	<2	0.37	<0.5	12	43	86	2.70
DD019125		0.35	0.014	<0.2	1.54	7	<10	140	0.6	<2	0.55	<0.5	11	33	482	2.41
DD019126		0.37	<0.005	<0.2	3.00	8	<10	120	0.6	<2	0.24	<0.5	12	49	93	3.33
DD019127		0.32	<0.005	0.2	2.46	10	<10	190	0.5	<2	0.38	<0.5	12	46	101	3.11

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VANCOUVER BC V6B 1L8

Finalized Date: 22-AUG-2014
Account: MTT

Project: HOPPER

CERTIFICATE OF ANALYSIS WH14117465

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
	Units	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOR	10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
DD019104		10	<1	0.11	10	0.74	461	1	0.02	20	710	6	0.01	<2	5	33
DD019105		<10	<1	0.08	10	0.58	306	1	0.03	19	1170	8	0.03	<2	3	39
DD019106		<10	<1	0.09	10	0.44	324	1	0.03	13	990	4	0.01	<2	3	31
DD019107		<10	<1	0.19	20	0.65	190	6	0.03	21	980	6	0.08	<2	5	43
DD019108		<10	<1	0.04	<10	0.16	323	4	0.05	7	460	<2	0.04	<2	1	44
DD019109		<10	<1	0.09	10	0.51	339	<1	0.03	15	930	2	<0.01	<2	3	29
DD019110		<10	<1	0.12	10	0.52	290	<1	0.03	15	1100	5	<0.01	<2	4	34
DD019111		<10	1	0.09	10	0.58	257	<1	0.03	15	1160	6	0.01	<2	4	36
DD019112		<10	<1	0.10	10	0.59	255	1	0.03	15	980	4	<0.01	<2	4	29
DD019113		10	1	0.10	10	0.69	333	1	0.02	22	410	4	0.01	<2	4	24
DD019114		<10	1	0.10	10	0.68	407	1	0.04	19	870	5	0.03	<2	4	51
DD019115		<10	<1	0.06	10	0.48	157	2	0.04	15	980	3	0.08	<2	3	52
DD019116		<10	<1	0.14	10	0.75	394	8	0.04	30	1050	5	0.10	<2	5	113
DD019117		10	<1	0.12	10	0.83	352	5	0.03	23	260	5	0.01	<2	5	37
DD019118		10	<1	0.23	20	1.10	252	10	0.05	39	880	4	0.01	<2	6	44
DD019119		10	<1	0.08	10	0.89	208	1	0.03	42	290	5	0.02	<2	4	20
DD019120		<10	<1	0.06	10	0.51	162	33	0.03	17	900	3	0.25	<2	4	114
DD019121		10	<1	0.11	10	0.72	276	2	0.02	20	540	7	<0.01	<2	4	25
DD019122		10	<1	0.13	10	0.87	263	<1	0.02	27	440	5	0.01	<2	5	22
DD019123		10	<1	0.10	10	0.83	386	53	0.03	22	1170	5	0.03	<2	5	38
DD019124		10	<1	0.13	10	0.78	311	8	0.02	29	250	5	<0.01	2	5	25
DD019125		<10	<1	0.16	20	0.65	305	23	0.03	29	660	3	0.01	<2	5	29
DD019126		10	<1	0.15	10	0.98	323	<1	0.02	30	180	5	0.01	2	7	23
DD019127		10	<1	0.08	10	0.82	280	<1	0.02	31	280	5	0.01	<2	5	28

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CERTIFICATE OF ANALYSIS WH14117465

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
DD019104		<20	0.14	<10	<10	67	<10	56
DD019105		<20	0.10	<10	<10	49	<10	45
DD019106		<20	0.10	<10	<10	40	<10	37
DD019107		<20	0.13	<10	<10	48	<10	70
DD019108		<20	0.05	<10	10	25	<10	20
DD019109		<20	0.11	<10	<10	47	<10	38
DD019110		<20	0.12	<10	<10	45	<10	39
DD019111		<20	0.12	<10	<10	48	<10	42
DD019112		<20	0.12	<10	<10	46	<10	38
DD019113		<20	0.12	<10	<10	53	<10	47
DD019114		<20	0.12	<10	<10	54	<10	48
DD019115		<20	0.10	<10	10	44	<10	49
DD019116		<20	0.12	<10	20	51	<10	68
DD019117		<20	0.15	<10	<10	64	<10	51
DD019118		<20	0.17	<10	<10	62	<10	48
DD019119		<20	0.13	<10	<10	47	10	33
DD019120		<20	0.08	<10	40	45	<10	43
DD019121		<20	0.14	<10	<10	62	<10	49
DD019122		<20	0.16	<10	<10	63	<10	43
DD019123		<20	0.14	<10	<10	60	<10	45
DD019124		<20	0.15	<10	<10	63	<10	46
DD019125		<20	0.13	<10	<10	54	<10	43
DD019126		<20	0.17	<10	<10	80	<10	64
DD019127		<20	0.13	<10	<10	78	<10	59

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CERTIFICATE OF ANALYSIS WH14117465

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-AA24 ME-ICP41

APPENDIX IV

ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions Property: Hopper

Sample Number:	M896210	UTM:	396662	mE	Nad83, Zone 8
Elevation:	m	UTM:	6796440	mN	

Comments: Specimen from 1 piece talus comprising hornblende-biotite granodiorite with fracture controlled mineralization. Limonite, cpy, tarnished py, silvery mineral (no Mo) and yellow gold - like mineral (tarnished cpy?)

Sample Number:	M898220	UTM:	396888	mE	Nad83, Zone 8
Elevation:	m	UTM:	6795082	mN	

Comments: A 2.3 m continuous chip sample was taken across a dioside rich skarn, which exhibits a sulfur precipitate on surface similar to the LV Zone mineralization; however, no silicified rocks were observed.

Sample Number:	M898221	UTM:	396931	mE	Nad83, Zone 8
Elevation:	m	UTM:	6795497	mN	

Comments: Garnet rich skarn with disseminated cp and moderate malachite stain. Quartz veining/sweats within the metasediments containing cp. Outcrop is discontinuous and has an 8 m strike length until it is covered by vegeatation to the north and south. A grab sample was taken.

Sample Number:	M898222	UTM:	396676	mE	Nad83, Zone 8
Elevation:	m	UTM:	6797277	mN	

Comments: Specimen 20 cm cubed of potassic altered hornblende-biotite granodiorite with high fracture density. Cpy heavily concentrated within fractures (none disseminated in GDR). Malachite and "live limonite" observed on fracture faces/seams.

Sample Number:	M898223	UTM:	396799	mE	Nad83, Zone 8
Elevation:	m	UTM:	6797234	mN	

Comments: Chlorite altered hornblende-biotite granodiorite (east side of vein) adjacent to chalcedony vein and argillic altered country rock. Sample comprises a 90 cm chip.

Rock Sample Descriptions Property: Hopper

Sample Number:	M898224	UTM:	396799	mE	Nad83, Zone 8
Elevation:	m	UTM:	6797234	mN	

Comments: Continuous chip sample across 25 cm argillic altered hornblende-bioitite granodiorite and chalcedony quartz vein. Quartz vein is approximately 2 cm wide and hosts cp and malachite stain within and near the vein selvages. The outcrop appears to be of a stockwork vein network with veins striking 048/66SE, 165/82NE. 060/26 SE.

Sample Number:	M898225	UTM:	396799	mE	Nad83, Zone 8
Elevation:	m	UTM:	6797234	mN	

Comments: Same as M898223 but 65 cm continuous chip sample. Outcrop is ~ 8 m wide and 3 m high and trends into vegetation north into a recessive gully and stops at ~ 3 m from the south corner of the outcrop.

Sample Number:	M898226	UTM:	397576	mE	Nad83, Zone 8
Elevation:	m	UTM:	6797238	mN	

Comments: Compsite chip sample over 2 m in historical trench-not bedrock. Hornblende-biotite monzonite with purpule phenos hosting ~ 1% disseminated cp.

Sample Number:	M898227	UTM:	396858	mE	Nad83, Zone 8
Elevation:	m	UTM:	6797366	mN	

Comments: Quartz carbonate-ankerite vein with malachite and cpy disseminated. Below ppy dyke outcrop.

Sample Number:	M898228	UTM:	398485	mE	Nad83, Zone 8
Elevation:	m	UTM:	6797425	mN	

Comments: Mg to cg monzonite with ~ 0.1-1% cp disseminated throughout. Sample collected from actively weathering face from subcropy material. Elsewhere in the area is covered by glacial till. A prominent linear is found ~80 east of the outcrop and trends at 170 degrees. Trace quartz carb veining hosting cp and malachite mineralization observed in talus.

Rock Sample Descriptions Property: Hopper

Sample Number:	M898278	UTM:	397743	mE	Nad83, Zone 8
Elevation:	m	UTM:	6797258	mN	

Comments: Strongly chlorite altered monzonite. Medium grained, similar to hornblend granodioirte, but more altered. Hosts up to 5% dissemianted cpy and 10% disseminated magnetite. Outcrop extends over 14 m, however it trends into vegetation both north and south.

Sample Number:	M898279	UTM:	397414	mE	Nad83, Zone 8
Elevation:	m	UTM:	6798218	mN	

Comments: Historical bulldozer trench. Crowded plag porphyry. Fx 190/75E and 133/65S. Cuts metasedimentary package.

Sample Number:	M898280	UTM:	397040	mE	Nad83, Zone 8
Elevation:	m	UTM:	6797897	mN	

Comments: Bleached diopside skarn? Similar looking to the LV Zone. Sulpher and rusty stained weathering surface and only found within 70x50 cm area on outcrop.

Sample Number:	M898281	UTM:	397151	mE	Nad83, Zone 8
Elevation:	m	UTM:	6798039	mN	

Comments: 3 m continuous chip sample . Zone with scordite staining? Withing diopside skarn. Exposed over 15 m along strike within cliff band

Sample Number:	M898282	UTM:	397102	mE	Nad83, Zone 8
Elevation:	m	UTM:	6797992	mN	

Comments: 2 m chip sample of diopside-actinolite skarn with manganese staining. The area seams to be similar to the LV Zone

Sample Number:	M898283	UTM:	396879	mE	Nad83, Zone 8
Elevation:	m	UTM:	6797861	mN	

Comments: Diopside skarn with trace to moderate fine grained sulphides and significant sulphide precipitate on survace. Horizon is approximately 2 m thick and carries over ~ 30 m - trends into vegetation both north and south along strike. Continuous chip sample over 2 m.

Rock Sample Descriptions Property: Hopper

Sample Number:	M898284	UTM:	396760	mE	Nad83, Zone 8
Elevation:	m	UTM:	6797663	mN	

Comments: Quartz carb veining and andesite dykes cross cutting weakly mineralized diopside skarn with biotite(?) - disseminated cpy. Quartz-carb veins appear to be causing endoskarning on the dyke and also appears to host most of the cpy mineralization. A continuous chip sample was taken across 50 cm, which included the 2 cm quartz-carb vein and the skarn. The outcrop is exposed over 4 m and trends into vegetation both north and south.

Sample Number:	M898285	UTM:	397310	mE	Nad83, Zone 8
Elevation:	m	UTM:	6798136	mN	

Comments: Pale green diopside skarn (fizzes with HCL) with calcite flooding, where blebby po and cpy (replacing?) occur within the calcite blebs/veins or near its margin. A north-south trending linear is located ~ 20 m southwest of the historical trench. The sample was high grade float. The skarn horizon appears to be a lens and pinches out towards the NE into marble and trends into vegetation to the southwest. A quartz-carb vein cuts through the skarn (mineralizer?). The skarn occurs over a 6 m strike length in outcrop.

Sample Number:	M898286	UTM:	397310	mE	Nad83, Zone 8
Elevation:	m	UTM:	6798136	mN	

Comments: Diopside-actinolite skarn hosting cpy, chalocite(?) and bornite(?). Cyp is blebby (up to 1 cm blebs). Sample is high grade and taken as float within the trench. The skarn horizon appears to be a lens and pinches out towards the NE into marble and trends into vegetation to the southwest. A quartz-carb vein cuts through the skarn (mineralizer?). The skarn occurs over a 6 m strike length in outcrop.

Sample Number:	M898287	UTM:	397468	mE	Nad83, Zone 8
Elevation:	m	UTM:	6798518	mN	

Comments: Actinolite-diopside skarn with blebby to fine grained cpy (up to 1%). Skarn horizon is 2 m thick (may be wider if trenched) and a continuous chip sample was taken across it. The skarn horizon trends into vegetation S-Sw and into marble/weaker skarn and then into vegetation to the N-NE

Rock Sample Descriptions Property: Hopper

Sample Number:	M898288	UTM:	397610	mE	Nad83, Zone 8
Elevation:	m	UTM:	6798576	mN	

Comments: Diopside-actinolite +/- po +/-magnetite skarn with up to 1% cpy. Mineralization appears to be attributed to the crowded plag porphyry dyke, which flanks the mineralized skarn. The skarn is exposed over 4 m in strike length and is 1.5 m wide. A continuous chip sample was taken across the 1.5 m exposure.

Sample Number:	M898289	UTM:	397500	mE	Nad83, Zone 8
Elevation:	m	UTM:	6798786	mN	

Comments: ~ 10 cm band of altered marble-epidote skarn with strong cpy and malachtie. Appears to be a small lense, could not trace it over 1 m in outcrop.

Sample Number:	M898290	UTM:	399737	mE	Nad83, Zone 8
Elevation:	m	UTM:	6797044	mN	

Comments: Fracture hosed cpy within biotite granodiorite. Sample taken from large felsenmeer covered slope above large snow patch. Mineralization hosted in chlorite altered fractures and it is trace

Sample Number:	M898291	UTM:	398757	mE	Nad83, Zone 8
Elevation:	m	UTM:	6797328	mN	

Comments: Quartz vein found in float. Appears to have eroded off andesite dyke (trend 030/85E). Vein is up to 5 cm, and hosts up to 10% cpy.

Sample Number:	M898292	UTM:	397366	mE	Nad83, Zone 8
Elevation:	m	UTM:	6793422	mN	

Comments: Grab sample of marble with trace limonite pits/laths.

Sample Number:	M898293	UTM:	396457	mE	Nad83, Zone 8
Elevation:	m	UTM:	6797346	mN	

Comments: Specimen sample - 6 piece quartz vein with limonite bands and coarse - blebby cpy. Continuation of vein cut by trench to north?

APPENDIX V

VOLTERRA 3DIP SURVEY LOGISTICS REPORT – SJ GEOPHYSICS

LOGISTICS REPORT PREPARED

FOR

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

VOLTERRA 3DIP SURVEY

ON THE

HOPPER PROPERTY

CANYON/OTTER FALLS, YUKON, CANADA
LATITUDE: N61° 18' LONGITUDE: W136° 54'

NTS SHEET: 115H07

MINING DIVISION: Whitehorse

SURVEY CONDUCTED BY SJ GEOPHYSICS LTD.
JULY, 2014

REPORT PREPARED BY
BRIAN CHEN
JULY 2014

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1. SURVEY SUMMARY

SJ Geophysics Ltd. was contracted by Archer, Cathro & Associates (1981) Ltd. to acquire resistivity and chargeability data on their Hopper property. The following table provides a brief summary of the project.

Client	Archer, Cathro & Associates (1981) Ltd.
Project Name	Hopper
Location (approx. centre of grid)	Latitude: 61º 18' N Longitude: 136º 54' W 6797195N 398057E; UTM Datum NAD83 Zone 8N
Survey Type	Volterra-3DIP
Total Line Kilometres	Inline 21 km, Cross line 7.2 km
Production Dates	July 3rd – July 11th , 2014
Objective	SJ Geophysics was contracted to carry out a Volterra-3DIP survey with the purpose of providing 3D inverted resistivity and chargeability property models. Multiple showings are present on the property with various mineralization types including skarn and veins. The purpose of the survey is to assist in outlining potential copper-gold porphyry style mineralization.

Table 1: Survey Summary

This logistics report summarizes the operational aspects and methodologies of the geophysical survey. This report does not discuss or interpret the survey results.

2. LOCATION AND ACCESS

The Hopper project is located 650 m east of Hopkins Lake, in the Yukon Territory, Canada (Figure 1). The closest town to the survey area is Canyon, which is approximately 48 km south of the Hopper project. The project area can be accessed from the town of Canyon by the following directions:

- Drive west from Canyon approximately 1 km along Highway 1.
- Turn north at Otter Falls Cutoff on the unpaved Aishiak road.
- Drive 48 km north on Aishiak road to reach the Hopper camp (Figure 2).

The survey region has many diverse landscapes consisting of mainly rolling hills and mountains. It is home to a variety of large mammals such as moose, caribou, Stone sheep, grizzly and black bears, bison and wolf. The vegetation is classified as sub-arctic and alpine. Typical vegetation consists of willow, alder and black spruce. The area has a continental climate with low levels of precipitation. Summers are normally pleasant with extended daylight hours whereas winters are long and cold.

Figure 1: Overview map of the Hopper project

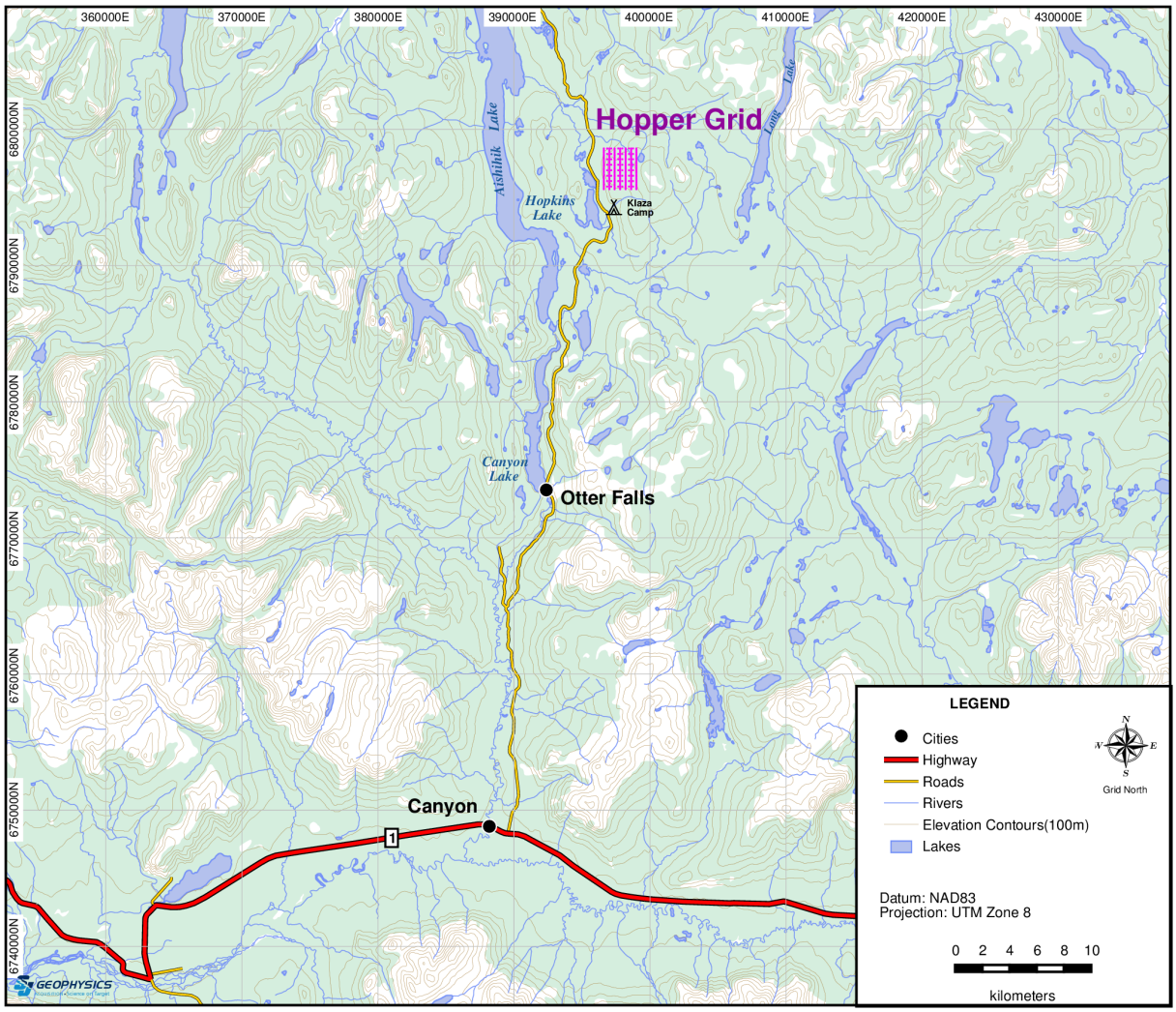

Figure 2: Location map for the Hopper project showing towns and road access.

3. GRID INFORMATION

Grid	Hopper
Number of Survey Lines	7
Survey Line Azimuth	0º
Line Spacing	400 m
Cross-dipole spacing	Every 400 m along receiver line
Station Spacing	100 m
Elevation range	1030 – 1500 m

Table 2: Grid parameters

The Hopper Grid grid consisted of 7 survey lines (3 receiver and 4 current lines), spaced at 400 m with stations flagged and marked every 100 m (Figure 3). Cross-dipoles had a length of 150 m and were oriented perpendicular to the receiver line at each in-line station. They were spaced every 400m along the receiver line. Line and station labels for the grid were based on the UTM coordinates, with the line labels being represented by the UTM easting subtracted by 395000 and the station labels represented by the UTM northing subtracted by 6794000. Please refer to Appendix A for a detailed breakdown of the survey lines.

All survey location data were collected by the SJ Geophysics crew. GPS control points were recorded in the UTM projection (NAD83, zone 8N).

Most part of the survey grid was situated on the plateau portion of a mountain with rolling hills. The west portion of the grid was situated on the slope of the mountain with some steep sections. Water bodies on the survey area consisted of lakes, creeks, and swamps. Several small lakes were dotted on the west central and northeast portion of the grid and a few creeks originating in the mountains were seen mainly on the northern and southern portion of the grid. The ground, which consisted of permafrost at the time of the survey, was covered by a thick layer of moss and short shrubs. Small alpine trees were sparsely distributed in the survey area. Temperature at the Hopper project ranged from a few degrees at night up to 20 ºC during the day. Precipitation was moderate at this time of year.

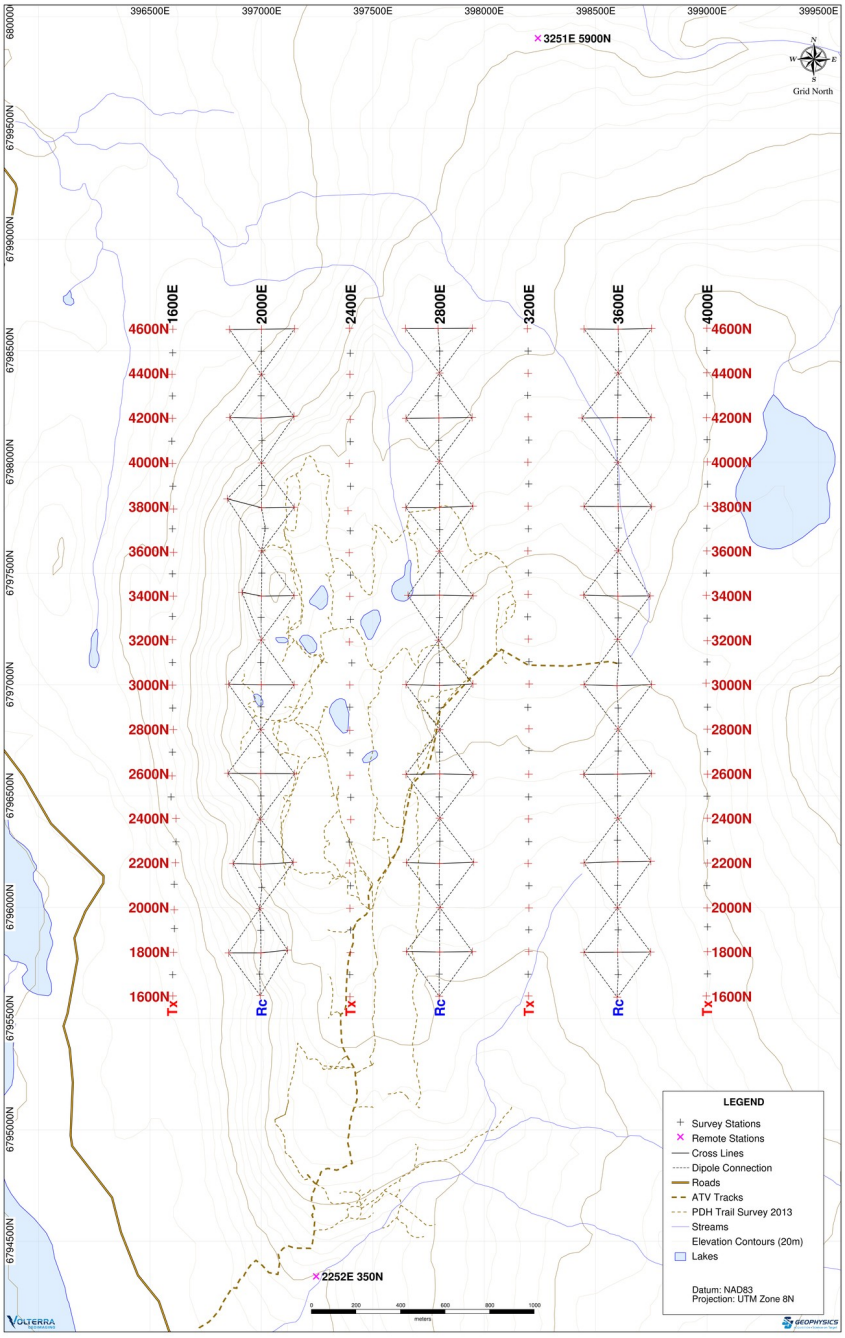

Figure 3: Grid Map showing the survey area for the Hopper grid.

4. FIELD WORK AND INSTRUMENTATION

4.1. Field Logistics

An SJ Geophysics field crew typically consists of at least two field geophysicists or technicians and at least five helpers to assist in the day-to-day operation of the survey. The field geophysicists and technicians oversee all operational aspects including field logistics, data acquisition and initial field data quality control. Table 3 lists the SJ Geophysics crew members on this project. Six helpers were provided by the client to assist the SJ Geophysics crew.

The SJ Geophysics crew's first day on site at the Hopper project was July 3rd and they remained on site through July 11th. On July 12th, the SJ crew demobilized from the project site to Whitehorse and flow back to Vancouver.

Crew Member Name	*Role*	*Dates on Site*
Brian Chen	Geophysicist	July 3-July 11
Jordan Perk	Field Geophysicist	July 3-July 11
Victor Kulla	Field Technician	July 3-July 11
Heather Burrel	Project Manager/Helper	July 3-July5, July 9-July11
Andy Mitchell	Camp supervisor/Helper	July 3-July 8
Matt Van Loon	Helper	July 3-July8, July10-July 11
Joe Rernolds	Helper	July 3-July 8
Leif Martin Berry	Helper	July 3-July 8
Greg Smith	Helper	July 3-July 11

Table 3: Details of the SJ Geophysics crew on site

During the course of the geophysical survey, the SJ Geophysics crew conducted weekly safety meetings as well as daily tailgate meetings. The safety meetings included a comprehensive review of safe work practices specific to our geophysical surveys and field operations. At the tailgate meetings, personnel discussed issues related to: changing weather conditions (including ramifications on the survey/personal safety), encounters with or sightings of potentially problematic wildlife, efficient organization of daily tasks, and any other work-related questions or concerns.

The SJ Geophysics crew was accommodated by the client at the Hopper camp, located 48 km north on Aishiak Road. The processing/dry tent was powered by a small Honda EU 2000i generator. The camp consisted of a kitchen tent and a few living tents. There was no cook, shower facilities or out house supplied in camp. Unfiltered water from a nearby creek was used for daily drinking. A satellite phone with limited internet (email only) was provided by the client for sending daily survey updates and communication. Two Kubota RTVs and one Honda ATV provided by the client were used to transport crew members and equipment between the camp and the survey grid.

On July 3rd, three SJ crew members mobilized from Whitehorse after completing a project in the Yukon for the same client. Upon arrival at the camp, the crew scouted the gird with one RTV. On July 4th, the crew started setting up wire on lines 2400E, 3200E, 3600E, and 4000E. Both the north and south remotes were set up. Wire on line 3600E was laid out for the receiver array. IP data acquisition started on July 5th. In order to achieve better data resolution, an inline dipole array with 100 m dipole spacing was added in addition to the original diamond array (250 m in length on each side) on the same receiver line. With such an array configuration, inline IP data were also collected. The inline data would be similar to the diamond array data and reduced the chance of re-survey due to wire breaks or equipment failure of a single dabtube. In order to achieve better depth penetration, current injections were carried out on a third current line 1200 m away from the receiver array. A 200 m current injection spacing was used on the far current line. With such a pattern, each 3000 m long receiver line was surveyed in two days. Wire setup and clean up occurred during IP data acquisition. The crew cleaned up the entire grid on July 11th after the IP survey was completed. The three crew members from SJ geophysics Ltd. demobilized to Vancouver through Whitehorse on July 12th.

Bears, wolves and small rodents were spotted during the survey period, but wire breaks due to animal activity were infrequent. Achieving good ground electrode contact was a challenge as the ground was still frozen. Before each electrode was put in the ground, the crew dug a hole in the moss and hammered the electrode in the ground at an angle. Radio communication was poor at the far end of the grid on the far side of the mountain.

Overall, the survey was carried out safely and efficiently with good team work between crew members.

4.2. Survey Parameters and Instrumentation

The SJ Geophysics crew utilized the Volterra Distributed Acquisition System to collect 3DIP data for this survey. The geophysical instrumentation used with Volterra consists of SJ Geophysics' full-waveform, 24-bit, single-channel Dabtube (Digital Acquisition Board) receivers and GDD Tx II transmitters. One advantage of the Volterra system is that the receivers are not tied to a single large cable running back to a data processing unit. This makes field logistics easier, and furthermore, the number of receivers (dipoles) that can be used with this system is highly flexible. Another significant advantage of using this system is that it can be easily laid out to go around obstacles such as rivers, roads, cliffs, and private property. The SJ Geophysics field crew capitalized on these advantages of the Volterra system to improve and streamline the logistics of the survey as much as possible. The specifications of these instruments are listed in Appendix B and the equipment parameters are summarized in Tables 4 and 5.

Geographic locations were collected at current injection points, dipole electrodes, and IP remote stations. Garmin GPSmap 62s receivers were used to take these location measurements. For the Garmin GPS units, horizontal accuracy was on the order of +/- 4 m.

Array Type	3DIP – Diamond and Consecutive Inline
Number of Dipoles	62 (inline + cross dipoles)
Dipole Length	Inline:100 m, Diamond: 250 m
Array Length (in line)	3000 m
Cross Dipole Length	150 m
Current Interval	100 m and 200 m
IP Transmitter	GDD TxII (Serial #345, 439)
Duty Cycle	50%
Waveform	Square
Cycle and Period	2 sec on / 2 sec off; 8 second
IP Receiver	Dabtue Four-channel Receivers
Reading Length	93 seconds
Vp Delay, Vp Integration	1200 ms, 600 ms
Mx Delay, # of Windows Width (Mx Intergration)	200 ms, 20 36, 39, 42, 45, 48, 52, 56, 60, 65, 70, 75, 81, 87, 94, 101, 109,118, 128, 140, 154 (200 ms – 1800 ms)
Properties Calculated	Vp, Mx, Sp, Apparent Res

Table 4: IP instrument parameters

GPS	Garmin GPSMAP 62s
Average Accuracy	4 m
Projection / Datum	UTM NAD83, zone 8N

Table 5: GPS instrument parameters

The dipoles were set up along the receiver lines with two types of arrays, diamond and consecutive inline. The in-line receiver lines (N-S) of the potential array were connected using 2-conductor wire, each 100 m long. Receiver stations were at a 400 m spacing with the first station 200 m from the south end on the receiver line. At each receiver station, wires from the 150 m cross dipoles located on both the east and west sides of the station, and the wires from the electrodes 200 m north and south of the station were connected to the four channel Dabtube receiver unit, creating a diamond (Figure 4). Another four channel Dabtube receiver unit was connected to five electrodes, centered at the receiver station and at 100 m spacing along the line, forming a 100 m dipole spacing consecutive inline array (Figure 5). This approach improves data resolution and provides data redundancy in the event that data from the diamond array dipole is lost.

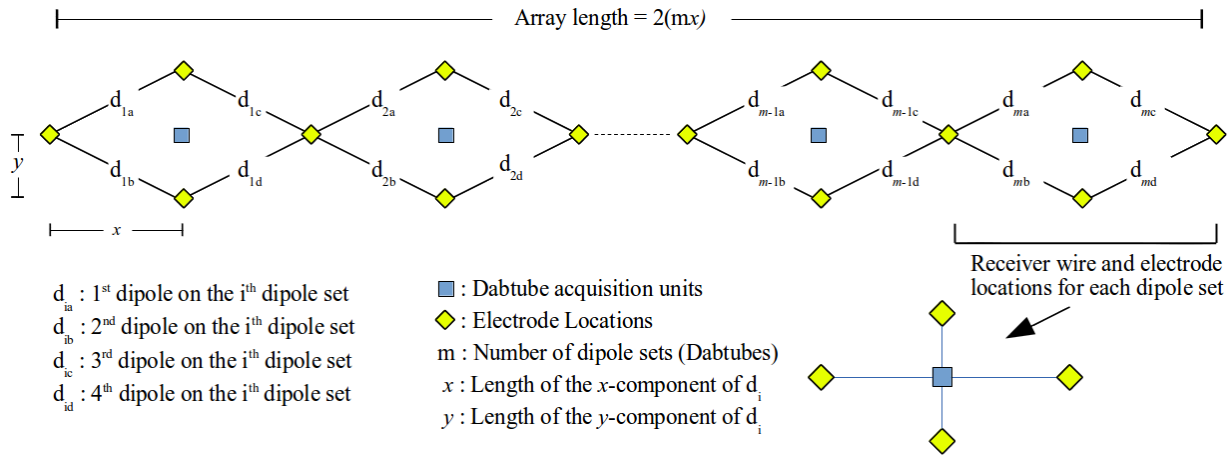

Figure 4: Schematic representation of the diamond array

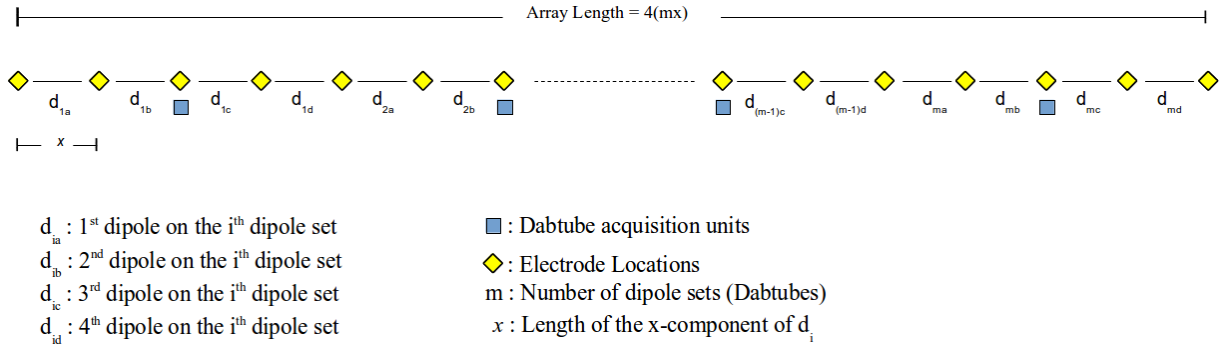

Figure 5: Schematic representation of the consecutive inline array

For the receiver dipoles, the electrodes consisted of stainless steel rods, 50 cm long and 10 mm in diameter, which were hammered into the ground. At each current station (100 m intervals), current was injected using two to four long (75 cm) stainless steel electrodes hammered into the ground. The remote current locations consisted of four 1 m stainless steel rods, 15 mm in diameter. Table 6 shows the UTM locations of the remote sites.

Name	**Label**	**Easting** **NAD83 UTM 8N**	**Northing** **NAD83 UTM 8N**
South Remote	2252E350N	397246	6794342
North Remote	3251E5900N	398241	6799904

Table 6: Locations of 3DIP remote sites

5. GEOPHYSICAL TECHNIQUES

5.1 IP Method

The time domain IP technique energizes the ground by injecting square wave current pulses via a pair of current electrodes. During current injection, the apparent (bulk) resistivity of the ground is calculated from the measured primary voltage and the input current. Following current injection, a time decaying voltage is also measured at the receiver electrodes. This IP effect measures the amount of polarizable (or "chargeable") particles in the subsurface rock.

Under ideal circumstances, high chargeability corresponds to disseminated metallic sulfides. Unfortunately, IP responses are rarely uniquely interpretable as other rock materials are also chargeable, such as some graphitic rocks, clays and some metamorphic rocks (e.g., serpentinite). Therefore, it is prudent from a geological perspective to incorporate other data sets to assist in interpretation.

IP and resistivity measurements are generally considered repeatable to within about five percent. However, changing field conditions, such as variable water content or electrode contact, reduce the overall repeatability. These measurements are influenced to a large degree by the rock materials near the surface or, more precisely, near the measurement electrodes. In the past, interpretation of a traditional IP pseudosection was often uncertain because strong responses located near the surface could mask a weaker one at depth. Geophysical inversion techniques help to overcome this uncertainty.

5.2 3DIP Method

Three dimensional IP surveys have been designed to take advantage of recent advances in 3D inversion techniques. Unlike conventional 2DIP, the electrode arrays are not restricted to an in-line geometry. Ideally, a 3DIP survey would consist of a random assortment of current injections and receiver dipoles, also of randomized azimuths. Unfortunately, logistical considerations usually prohibit a completely randomized approach.

In the standard 3DIP configuration, a receiver array is established along one survey line while current lines are located on two adjacent lines lying on either side of the receiver line. Current

injections are performed sequentially at fixed increments (25, 50, 100 or 200 m) along the current lines. By injecting current at multiple locations along current lines adjacent to receiver arrays, data acquisition rates are significantly improved over conventional surveys. Meanwhile, geophysical data are collected along a receiver array which consists of dipoles usually laid out along even intervals dictated partly by the receiver cable.

The Volterra system provides much more flexiblity because each Dabtube receiver records four dipoles, thus eliminating the need for specialized receiver cables and a centralized receiver control station. Dipoles can be oriented in any direction, can be of varying lengths, and completely avoid inaccessible areas if necessary.

Although more randomized than conventional 3DIP, most Volterra surveys still follow some form of cut lines, alternating receiver dipoles and current injections and deviating where necessary for geophysical or logistical purposes. In addition, cross-line receiver dipoles are often used to increase near-surface resolution and allow for larger spacing between lines. The specifics of each survey are customized before the survey starts and sometimes during the survey by the field geophysicist.

6. QUALITY ASSURANCE

6.1. Locations

Good quality survey location data is crucial to successful analysis and interpretation of the collected geophysical data.

The quality of the location data for this survey is generally high due to good satellite reception and open terrain. All GPS elevations typically have lower accuracy in the vertical direction and were replaced by elevations extracted from an NTS DEM.

6.2. IP Data

All Volterra-IP data go through a series of quality assurance checks both in the field and in the office to ensure data are of good quality. Prior to field data acquisition, a contact resistivity test is performed using a Dabtube receiver unit for each dipole in the array. This test allows the operator to identify areas of poor ground contact which could otherwise degrade input signal quality during data acquisition stages. Furthermore, this test allows the operator to inspect the raw data being recorded by the Dabtube to ensure that there are no problems with the receiver and to ensure the receiver is synchronizing to the appropriate GPS time.

During acquisition stages, a dedicated 'transmitter' Dabtube is used to monitor the current being injected at each station through the use of a current monitor. In doing so, the transmitter operator is able to inspect the quality of the input current and can easily identify when there may be current leakage problems or when a transmitter is not transmitting current cleanly or consistently. The 'transmitter' Dabtube is also used to obtain the GPS time when current is on.

Following field data collection, data are downloaded from each Dabtube receiver unit and clipped to the GPS time windows used during acquisition as recorded by the transmitter Dabtube. All processed data are inspected and any bad units or readings are flagged for removal. The data are then exported to an .xml format for import into an SJ Geophysics Ltd. proprietary QA/QC software package called JavIP.

Each evening, the analyzed data are imported into JavIP. This package integrates the location information with each reading, thus allowing the calculation of the apparent resistivity and apparent chargeability. The package's interactive quality control tools, plot of decay curves, table

of calculated parameters and a dot plot (graphical display of data of the various parameters), provide the field geophysicist a method to verify each data point. After the field geophysicist removes known bad points from field observations and other obvious outliers, the database is delivered to SJ Geophysics in the head office for a second review. In this second review, the data are scrutinized to ensure erroneous data points are not passed along to the final stage of processing: the inversion.

The data collected on the Hopper project was of fair to good quality. The voltage potentials (Vp), for the most part, were strong and the signals and resulting decay curves were mostly fair. On the Hopper project most of the data flagged for removal was due to non-coupling. This phenomena is typical in IP surveys and is related to the survey configuration. Non-coupling occurs when the receiver dipole is sub-parallel to the equipotential lines which can result in a significant decrease in signal strength and lead to untrustworthy data. Some poor quality data were flagged for removal either due to low quality signals, or dipoles being inadvertently disconnected (usually due to animal activity). Readings from current injections on the far current lines (1000 m to the nearest receiver dipoles) were typically noisier then near offset injections. In addition, the injected currents were lower in rocky spots where good electrode ground contacts was hard to achieve. IP data collected on July 10th (On line 2000E, current injections from 1600N to 3100N) were affected slightly by a magnetic storm. A few readings with skewed decay curves were removed. Approximately 15% of the dipoles were flagged as poor data. Figure 6 shows data from the near current injection where data was generally very clean, and Figure 7 shows data from the low current injection at a rocky spot that was slightly more noisy.

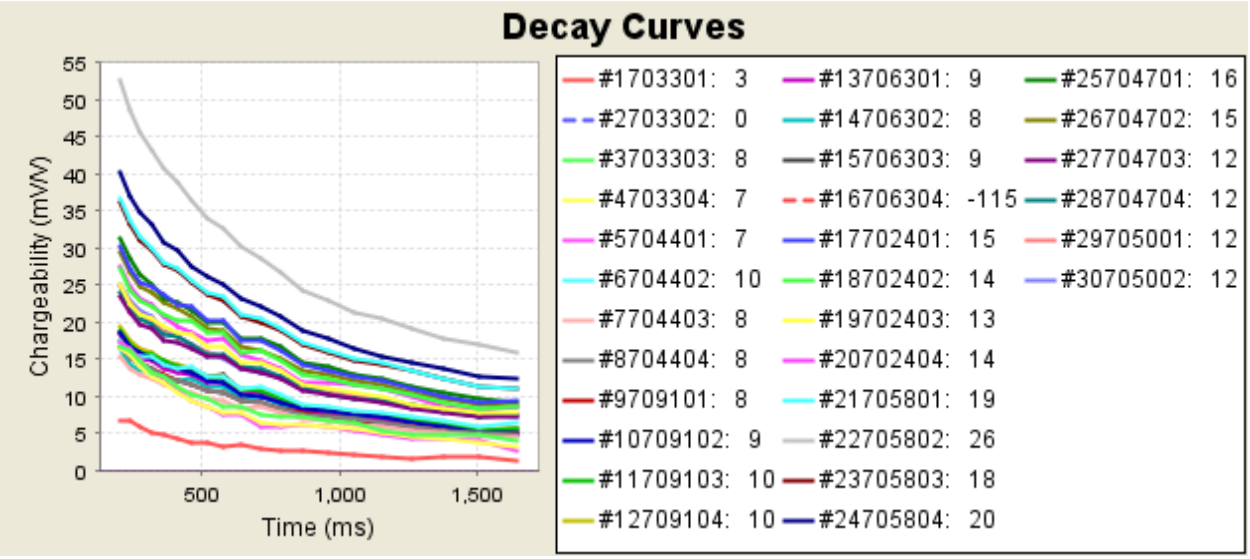

Figure 6: Decay curves of reading on line 3600E from line 3800E injection station 1800N.

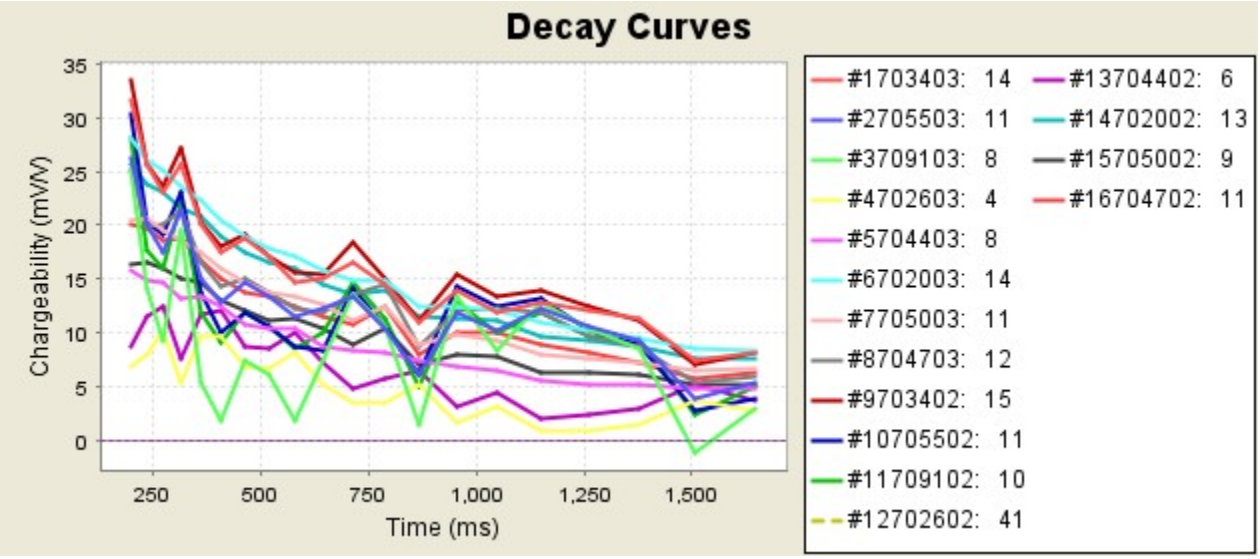

Figure 7: Decay curves of reading on line 3600E from line 2400E injection station 3600N

7. GEOPHYSICAL INVERSION

The purpose of geophysical inversion is to estimate the distribution of rock physical properties in the subsurface based on the geophysical data collected at the surface. Examples of rock physical properties include: density, resistivity, chargeability, and magnetic susceptibility. Geophysical measurements made at the surface are strongly influenced by the physical properties of rocks in the subsurface. Therefore, mathematical algorithms are used to convert these surface measurements into a 3D picture of the subsurface. This process is called geophysical inversion. Unfortunately, the inversion process cannot provide a single unique solution. Indeed, there are many different possible subsurface 3D physical property models that could fit the surface geophysical measurements. Despite this limitation, inversion is a very powerful tool to help identify the main subsurface features which are required by the surface geophysical data. With the combination of high quality surface measurements and geophysical inversion, a much greater understanding of the subsurface can be obtained. Several geophysical inversion programs are available, but SJ Geophysics primarily uses the UBC-GIF algorithms (e.g. DCIP2D, DCIP3D, MAG3D, GRAV3D) which were developed by a consortium of major mining companies under the auspices of the UBC-Geophysical Inversion Facility.

It is SJ Geophysics standard practice to invert data from 3DIP surveys, and to do this we use the DCIP3D program which solves two inverse problems. First, the DC potentials are inverted to calculate the spatial distribution of electrical resistivity in the subsurface. Second, the chargeability data (IP) are inverted to recover the spatial distribution of IP polarizable particles in subsurface rocks. When available, additional information, such as geological boundaries and down-hole geophysical data, can be added to the inversion in order to constrain the inversion model. The inversion programs are generally applied iteratively to evaluate the output with regard to what is geologically known, estimate the depth of detection, and determine the viability of specific measurements.

The inversion result is then run through a series of quality control steps prior to final gridding and mapping. Inversion output is plotted to show the distribution of physical properties (e.g. resistivity, chargeability, etc.) in cross-sections as well as plan maps that are sliced at different depths beneath the surface. Inversion results are also visualized in 3D using the open source software packages Mayavi and Paraview. Using both 2D and 3D views, additional data can then

be overlain to aid in interpretation and facilitate discussion of potential drilling targets.

Respectfully submitted,
per SJ Geophysics Ltd.

Brian Chen

APPENDIX A: SURVEY DETAILS

Hopper Grid

Line	*Series*	*Type*	*Start Station*	*End Station*	*Survey Length (m)*
1600	E	Tx	1600	4600	3000
2000	E	Rc	1600	4600	3000
16 Cross Dipoles with length of 150 m each					2400
2400	E	Tx	1600	4600	3000
2800	E	Rc	1600	4600	3000
16 Cross Dipoles with length of 150 m each					2400
3200	E	Tx	1600	4600	3000
3600	E	Rc	1600	4600	3000
16 Cross Dipoles with length of 150 m each					2400
4000	E	Tx	1600	4600	3000

Total Linear Metres = 28,200 m

Rc = Receiver Line, Tx = Transmitter Line

APPENDIX B: INSTRUMENT SPECIFICATIONS

Dabtube 24-bit four-channel acquisition unit

Technical:

Input impedance:	15 MΩ
Input overvoltage protection:	5.6 V
Internal memory:	Variable USB flash memory stick (currently 16 GB)
Number of inputs:	4 galvanically isolated inputs
Synchronization:	GPS
Selectable Sampling Rates (samples/second):	128000, 64000, 32000, 16000, 8000, 4000, 2000, 1000
Common mode rejection:	More than 80 dB (for Rs=0)
Voltage sensitivity:	Range: 10 V (peak to peak, ± 5 V) Resolution: 0.24 μV
Communication:	Bluetooth and USB
Serial Port:	4 RS-232 full duplex
Digital I/O:	6 time stamped ports

General:

Dimensions:	Diameter: 5.5 cm, Length: 60 cm
Weight:	0.85 kg
Battery:	4.8 V internal
Operating temperature range:	-40 ºC to 40 ºC

GDD TxII IP Transmitter

Input voltage:	120V / 60 Hz or 240V / 50Hz (optional)
Output power:	3.6 kW maximum
Output voltage:	150 to 2200 V
Output current:	5 mA to 10 A
Time domain:	1, 2, 4, 8 second on/off cycle
Operating temp. range:	-40 °C to +65 °C
Display:	Digital LCD read to 0.001 A
Dimensions:	34 x 21 x 39 cm
Weight:	20 kg

APPENDIX VI

INTERPRETED RESISTIVITY AND CHARGEABILITY INVERSION MODELS CROSS-SECTIONS

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rc Tx Rc Tx Rc Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ohm−m

- > 20000
- 15000 − 20000
- 10000 − 15000
- 5000 − 10000
- 4000 − 5000
- 3000 − 4000
- 2000 − 3000
- 1500 − 2000
- 1000 − 1500
- 500 − 1000
- 200 − 500
- < 200

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: dcinv3dUTM.con
Colour Classification: Modified Logarithmic
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Resistivity Inversion Model (ohm−m)

Depth: 5m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate R−1

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rc Tx Rc Tx Rc Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ohm−m

- > 20000
- 15000 − 20000
- 10000 − 15000
- 5000 − 10000
- 4000 − 5000
- 3000 − 4000
- 2000 − 3000
- 1500 − 2000
- 1000 − 1500
- 500 − 1000
- 200 − 500
- < 200

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: dcinv3dUTM.con
Colour Classification: Modified Logarithmic
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Resistivity Inversion Model (ohm−m)

Depth: 50m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate R−2

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rc Tx Rc Tx Rc Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ohm−m

- > 20000
- 15000 − 20000
- 10000 − 15000
- 5000 − 10000
- 4000 − 5000
- 3000 − 4000
- 2000 − 3000
- 1500 − 2000
- 1000 − 1500
- 500 − 1000
- 200 − 500
- < 200

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: dcinv3dUTM.con
Colour Classification: Modified Logarithmic
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Resistivity Inversion Model (ohm−m)

Depth: 100m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate R−3

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rc Tx Rc Tx Rc Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ohm−m

- > 20000
- 15000 − 20000
- 10000 − 15000
- 5000 − 10000
- 4000 − 5000
- 3000 − 4000
- 2000 − 3000
- 1500 − 2000
- 1000 − 1500
- 500 − 1000
- 200 − 500
- < 200

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: dcinv3dUTM.con
Colour Classification: Modified Logarithmic
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Resistivity Inversion Model (ohm−m)

Depth: 150m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate R−4

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N

6799500N

6799000N

6798500N

6798000N

6797500N

6797000N

6796500N

6796000N

6795500N

6795000N

6794500N

3251E 5900N

N
W E
S
Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rc Tx Rc Tx Rc Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ohm−m
- > 20000
- 15000 − 20000
- 10000 − 15000
- 5000 − 10000
- 4000 − 5000
- 3000 − 4000
- 2000 − 3000
- 1500 − 2000
- 1000 − 1500
- 500 − 1000
- 200 − 500
- < 200

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: dcinv3dUTM.con
Colour Classification: Modified Logarithmic
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Resistivity Inversion Model (ohm−m)

Depth: 200m Below Topography

0 200 400 600 800 1000
meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate R−5

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N

6799500N

6799000N

6798500N

6798000N

6797500N

6797000N

6796500N

6796000N

6795500N

6795000N

6794500N

3251E 5900N

N
W E
S
Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rc Tx Rc Tx Rc Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ohm−m
- > 20000
- 15000 − 20000
- 10000 − 15000
- 5000 − 10000
- 4000 − 5000
- 3000 − 4000
- 2000 − 3000
- 1500 − 2000
- 1000 − 1500
- 500 − 1000
- 200 − 500
- < 200

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: dcinv3dUTM.con
Colour Classification: Modified Logarithmic
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Resistivity Inversion Model (ohm−m)

Depth: 250m Below Topography

0 200 400 600 800 1000
meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate R−6

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N

6799500N

6799000N

6798500N

6798000N

6797500N

6797000N

6796500N

6796000N

6795500N

6795000N

6794500N

3251E 5900N

N
W E
S
Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rc Tx Rc Tx Rc Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ohm−m
- > 20000
- 15000 − 20000
- 10000 − 15000
- 5000 − 10000
- 4000 − 5000
- 3000 − 4000
- 2000 − 3000
- 1500 − 2000
- 1000 − 1500
- 500 − 1000
- 200 − 500
- < 200

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: dcinv3dUTM.con
Colour Classification: Modified Logarithmic
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Resistivity Inversion Model (ohm−m)

Depth: 300m Below Topography

0 200 400 600 800 1000
meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate R−7

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N

6799500N

6799000N

6798500N

6798000N

6797500N

6797000N

6796500N

6796000N

6795500N

6795000N

6794500N

3251E 5900N

N
W E
S
Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rc Tx Rc Tx Rc Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ohm−m
- > 20000
- 15000 − 20000
- 10000 − 15000
- 5000 − 10000
- 4000 − 5000
- 3000 − 4000
- 2000 − 3000
- 1500 − 2000
- 1000 − 1500
- 500 − 1000
- 200 − 500
- < 200

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: dcinv3dUTM.con
Colour Classification: Modified Logarithmic
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Resistivity Inversion Model (ohm−m)

Depth: 400m Below Topography

0 200 400 600 800 1000
meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate R−8

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rc Tx Rc Tx Rc Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ohm−m

- > 20000
- 15000 − 20000
- 10000 − 15000
- 5000 − 10000
- 4000 − 5000
- 3000 − 4000
- 2000 − 3000
- 1500 − 2000
- 1000 − 1500
- 500 − 1000
- 200 − 500
- < 200

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: dcinv3dUTM.con
Colour Classification: Modified Logarithmic
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Resistivity Inversion Model (ohm−m)

Depth: 500m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate R−9

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rc Tx Rc Tx Rc Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ohm−m

- > 20000
- 15000 − 20000
- 10000 − 15000
- 5000 − 10000
- 4000 − 5000
- 3000 − 4000
- 2000 − 3000
- 1500 − 2000
- 1000 − 1500
- 500 − 1000
- 200 − 500
- < 200

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: dcinv3dUTM.con
Colour Classification: Modified Logarithmic
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Resistivity Inversion Model (ohm−m)

Depth: 600m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate R−10

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rc Tx Rc Tx Rc Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ohm−m

- > 20000
- 15000 − 20000
- 10000 − 15000
- 5000 − 10000
- 4000 − 5000
- 3000 − 4000
- 2000 − 3000
- 1500 − 2000
- 1000 − 1500
- 500 − 1000
- 200 − 500
- < 200

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: dcinv3dUTM.con
Colour Classification: Modified Logarithmic
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Resistivity Inversion Model (ohm−m)

Depth: 700m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Mapping By : SJ Geophysics Ltd. 11966−95A Avenue, Delta, British Columbia, Canada V4C 3W2 (604) 582−1100 www.sjgeophysics.com

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rx Tx Rx Tx Rx Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ohm−m

- > 20000
- 15000 − 20000
- 10000 − 15000
- 5000 − 10000
- 4000 − 5000
- 3000 − 4000
- 2000 − 3000
- 1500 − 2000
- 1000 − 1500
- 500 − 1000
- 200 − 500
- < 200

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: dcinv3dUTM.con
Colour Classification: Modified Logarithmic
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Resistivity Inversion Model (ohm−m)

Depth: 800m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate R−12

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rc Tx Rc Tx Rc Tx

2252E 350N

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ms

- > 35
- 30 − 35
- 28 − 30
- 26 − 28
- 24 − 26
- 22 − 24
- 18 − 22
- 14 − 18
- 10 − 14
- 6 − 10
- 2 − 6
- < 2

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: ipinv3dUTM.chg
Colour Classification: Modified Linear
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Chargeability Inversion Model (ms)

Depth: 5m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate C−1

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rc Tx Rc Tx Rc Tx

2252E 350N

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ms

- > 35
- 30 − 35
- 28 − 30
- 26 − 28
- 24 − 26
- 22 − 24
- 18 − 22
- 14 − 18
- 10 − 14
- 6 − 10
- 2 − 6
- < 2

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: ipinv3dUTM.chg
Colour Classification: Modified Linear
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Chargeability Inversion Model (ms)

Depth: 50m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate C−2

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rx Tx Rx Tx Rx Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ms

- > 35
- 30 − 35
- 28 − 30
- 26 − 28
- 24 − 26
- 22 − 24
- 18 − 22
- 14 − 18
- 10 − 14
- 6 − 10
- 2 − 6
- < 2

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: ipinv3dUTM.chg
Colour Classification: Modified Linear
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Chargeability Inversion Model (ms)

Depth: 100m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate C−3

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rx Tx Rx Tx Rx Tx

2252E 350N

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ms

- > 35
- 30 − 35
- 28 − 30
- 26 − 28
- 24 − 26
- 22 − 24
- 18 − 22
- 14 − 18
- 10 − 14
- 6 − 10
- 2 − 6
- < 2

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: ipinv3dUTM.chg
Colour Classification: Modified Linear
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Chargeability Inversion Model (ms)

Depth: 150m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate C−4

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rc Tx Rc Tx Rc Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ms

- > 35
- 30 − 35
- 28 − 30
- 26 − 28
- 24 − 26
- 22 − 24
- 18 − 22
- 14 − 18
- 10 − 14
- 6 − 10
- 2 − 6
- < 2

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: ipinv3dUTM.chg
Colour Classification: Modified Linear
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Chargeability Inversion Model (ms)

Depth: 200m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate C−5

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rc Tx Rc Tx Rc Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ms

- > 35
- 30 − 35
- 28 − 30
- 26 − 28
- 24 − 26
- 22 − 24
- 18 − 22
- 14 − 18
- 10 − 14
- 6 − 10
- 2 − 6
- < 2

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: ipinv3dUTM.chg
Colour Classification: Modified Linear
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Chargeability Inversion Model (ms)

Depth: 250m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate C−6

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rx Tx Rx Tx Rx Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ms

- > 35
- 30 − 35
- 28 − 30
- 26 − 28
- 24 − 26
- 22 − 24
- 18 − 22
- 14 − 18
- 10 − 14
- 6 − 10
- 2 − 6
- < 2

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: ipinv3dUTM.chg
Colour Classification: Modified Linear
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Chargeability Inversion Model (ms)

Depth: 300m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate C−7

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rx Tx Rx Tx Rx Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ms

- > 35
- 30 − 35
- 28 − 30
- 26 − 28
- 24 − 26
- 22 − 24
- 18 − 22
- 14 − 18
- 10 − 14
- 6 − 10
- 2 − 6
- < 2

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: ipinv3dUTM.chg
Colour Classification: Modified Linear
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Chargeability Inversion Model (ms)

Depth: 400m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate C−8

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rx Tx Rx Tx Rx Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ms

- > 35
- 30 − 35
- 28 − 30
- 26 − 28
- 24 − 26
- 22 − 24
- 18 − 22
- 14 − 18
- 10 − 14
- 6 − 10
- 2 − 6
- < 2

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: ipinv3dUTM.chg
Colour Classification: Modified Linear
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Chargeability Inversion Model (ms)

Depth: 500m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate C−9

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rc Tx Rc Tx Rc Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ms

- > 35
- 30 − 35
- 28 − 30
- 26 − 28
- 24 − 26
- 22 − 24
- 18 − 22
- 14 − 18
- 10 − 14
- 6 − 10
- 2 − 6
- < 2

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: ipinv3dUTM.chg
Colour Classification: Modified Linear
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Chargeability Inversion Model (ms)

Depth: 600m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate C−10

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rc Tx Rc Tx Rc Tx

2252E 350N

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ms

- > 35
- 30 − 35
- 28 − 30
- 26 − 28
- 24 − 26
- 22 − 24
- 18 − 22
- 14 − 18
- 10 − 14
- 6 − 10
- 2 − 6
- < 2

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: ipinv3dUTM.chg
Colour Classification: Modified Linear
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Chargeability Inversion Model (ms)

Depth: 700m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate C−11

396500E 397000E 397500E 398000E 398500E 399000E 399500E

6800000N 6799500N 6799000N 6798500N 6798000N 6797500N 6797000N 6796500N 6796000N 6795500N 6795000N 6794500N

3251E 5900N

N W E S

Grid North

1600E 2000E 2400E 2800E 3200E 3600E 4000E

4600N 4400N 4200N 4000N 3800N 3600N 3400N 3200N 3000N 2800N 2600N 2400N 2200N 2000N 1800N 1600N

Tx Rx Tx Rx Tx Rx Tx

2252E 350N

VOLTERRA GEOIMAGING

SJ GEOPHYSICS CONSULTING • Science on Target

LEGEND

- Survey Stations
- Remote Stations
- Cross Lines
- Dipole Connection
- Roads
- ATV Tracks
- PDH Trail Survey 2013
- Streams
- Elevation Contours (20m)
- Lakes
- Area of Low Model Confidence

ms

- > 35
- 30 − 35
- 28 − 30
- 26 − 28
- 24 − 26
- 22 − 24
- 18 − 22
- 14 − 18
- 10 − 14
- 6 − 10
- 2 − 6
- < 2

Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra−3DIP
Survey Date: July 2014
3D Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC−GIF DCIP3D

Instrumentation:
Receiver: Dabtube 24−bit Four Channel Acquisition Units
Transmitter: GDD TX II
Array Type: 3DIP − Diamond and Inline

Mapping Information:
Datum: NAD83
Projection: UTM Zone 8N
NTS Sheet: 115H07
Inversion Model: ipinv3dUTM.chg
Colour Classification: Modified Linear
Mapping Date: 25−Jul−2014

Volterra Geoimaging System

Interpreted Chargeability Inversion Model (ms)

Depth: 800m Below Topography

0 200 400 600 800 1000

meters

Archer, Cathro & Associates (1981) Ltd.

Hopper Grid

Yukon, Canada

Plate C−12

APPENDIX VII

PETROGRAPHICS' REPORT – VANCOUVER PETROGRAPHICS LTD

Vancouver Petrographics Ltd.
8080 GLOVER ROAD, LANGLEY, B.C. V1M 3S3
PHONE: 604-888-1323 • FAX: 604-888-3642
email: vanpetro@vanpetro.com
Website: www.vanpetro.com

Report for: Heather Burrell
Archer, Cathro & Associates (1981) Ltd
Suite 1016-510 West Hastings Street
Vancouver, BC V6B 1L8

Sent to: Heather Burrell
hburrell@archercathro.com

Report 140468

August 1, 2014

Petrographic Report on 8 Rock Samples from the Hopper Project

Fabrizio Colombo, Ph.D., P.Geo.
fab.petrologic@gmail.com

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    Sample 2B....16
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    Sample 3A....22
    Sample 3B....25
    Sample 4B....28
Glossary of Microstructural and Petrologic Terms Used in the Text....30

1. Introduction

Ms. Heather Burrell of Archer, Cathro & Associates submitted 8 rock samples to Vancouver Petrographics for petrographic analysis. The client did not indicate where the samples were collected from.

The attached “Petrographic Descriptions” section provides the following for each sample: (i) the petrographic rock classification; (ii) a brief microstructural description; (iii) a table with the modal percentage and average grain size for each mineral; and (iv) a detailed description of the minerals in decreasing order of abundance.

The samples (see Table 1) were cut and prepared as ~20 × 40 mm polished thin sections (see the image on the first page of each description).

The petrographic classification follows the recommendations of Gillespie et al. (2011), and Gillespie and Styles (1999).

The microstructural terminology used in this report follows the recommendations and definitions of Vernon (2004), Passchier and Trouw (1998), and Ramdohr (1980).

The magnetic susceptibility (see Table 1) was measured with a hand-held KT Magnetic Susceptibility Meter, and is intended to provide only an approximate estimate of the relative content of magnetic minerals within each sample.

2. Results

The samples can be subdivided into three suites.

The **first** suite (Samples **1A** and **1B**) consists of medium-grained granodiorite. Subhedral plagioclase prevails over interstitial quartz and K-feldspar; lesser biotite and amphibole; and in Sample 2, some relicts of clinopyroxene. The granodiorite hosts accessory amounts of magnetite and is subtly to weakly altered by chlorite, epidote, actinolite, and white mica/clay. In Sample 1, the granodiorite is crosscut by a quartz-plagioclase-phyric quartz-monzonite. The plagioclase, quartz, hornblende, and pseudomorphs after biotite are immersed within a fine-grained groundmass dominated by K-feldspar. The hornblende is less altered and more abundant than the biotite within the microquartz-monzonite.

The **second** suite (Samples **2A**, **2B**, and **2C**) is a **gabbro**. The three samples are made up of slightly iso-oriented euhedral crystals of plagioclase, which define an intergranular microstructure with the interstitial spaces occupied by varying amounts of biotite and amphibole together with magnetite. The three samples host uralitic relicts of clinopyroxene, which is overprinted and partially replaced by hornblende. The hornblende is further altered

by actinolite in Samples 2B and 2C. The K-feldspar occurs as an alteration phase in Sample 2B, as indicated by its occurrence within thin discontinuous veinlets sub-parallel to the weak foliation defined by the plagioclase. The K-feldspar alteration is moderate (~10%) in Sample 2C.

The **third** suite (Samples **3A**, **3B**, and **4B**) is made up of slightly different medium-grained **monzonitic intrusives**. Sample **3A** shows a composition similar to the gabbroic rock of the second suite and is a plagioclase-phyric **monzodiorite**. The plagioclase phenocrysts are randomly oriented and dominate the composition of this rock. Phenocrysts of hornblende, biotite, and magnetite are subordinate and are immersed within a groundmass with abundant K-feldspar and lesser quartz. Myrmekitic intergrowths between quartz and K-feldspar point to a magmatic crystallization of the K-feldspar within the groundmass. The magmatic microstructure is crosscut by a quartz-K-feldspar vein. Sample **3B** is a medium-grained **altered monzogranite**. The plagioclase is completely replaced by clay (kaolinite?) and calcite (the calcite strongly altered the rock). The microstructure is less porphyritic that Sample 3A, and the pseudomorphs after plagioclase, quartz, and K-feldspar form a granular microstructure. This sample is crosscut by a composite vein of quartz and dolomite.

Sample **4B** is a medium-grained **quartz-monzonite**. This sample is moderately altered by a cryptocrystalline dispersion of probable clay, which in part obscures the microstructural relationships between the plagioclase and the K-feldspar; however, micrographic intergrowths indicate the K-feldspar crystallized with the quartz during the late magmatic stage. Chlorite, epidote, and actinolite completely replaced the magmatic ferromagnesian minerals (hornblende and biotite?). Magnetite occurs as accessory phase.

Table 1: List of samples with their magnetic susceptibility and petrographic classification.[1]

Sample ID	Magnetic Susceptibility ($\cdot 10^{-3}$ SI)	Rock Type
1A	3.8	Granodiorite
1B	3.39	Quartz-plagioclase-phyric microquartz-monzonite; Granodiorite
2A	22.8	Gabbro
2B	14.8	Altered gabbro
2C	9.1	Altered gabbro(?)
3A	2.73	Plagioclase-phyric monzodiorite; Quartz-K-feldspar vein
3B	0.117	Altered monzogranite; Quartz-dolomite vein; Calcite veinlets
4B	3.4	Quartz-monzonite

1 Rock classification after Gillespie et al. (2011), and Gillespie and Styles (1999).

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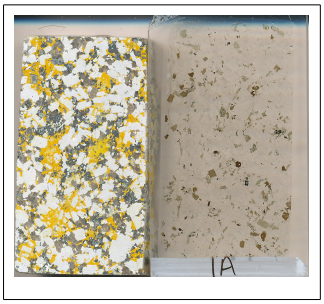
4. Petrographic Descriptions

Sample 1A



Granodiorite

The microstructure is inequigranular and medium grained (0.2–2.5 mm) and is defined by subhedral crystals of plagioclase, anhedral quartz, interstitial K-feldspar, subhedral biotite, anhedral to skeletal hornblende, and subhedral magnetite.

***Alteration*: actinolite** (subtle); **Fe-chlorite** (subtle, after biotite); **hematite** (subtle, after magnetite).

Mineral	*Modal %*	*Main Size Range (mm)*
plagioclase (albite)	65 – 62	0.2–2.5
quartz	17 – 19	up to 1
K-feldspar	9 – 10	up to 4
biotite	3 – 4	up to 1
amphibole: hornblende(?) and actinolite (?)	2 – 3	up to 1.5
magnetite	0.5 – 0.6	up to 0.25
titanite	0.1 – 0.2	up to 0.5
Fe-chlorite	tr	up to 0.05
hematite	tr	up to 0.05

Plagioclase forms randomly oriented subhedral crystals ranging from 0.25 mm to 2.5 mm. The plagioclase crystals show albite twinning and an oscillatory, normal (i.e., albite richer rims) euhedral growth zoning. The plagioclase's low extinction angle between adjacent twinning sectors and the lower refractive indexes than those of quartz indicate that the plagioclase is albite. The plagioclase is subtly altered by a cryptocrystalline aggregate of unresolved material.

Quartz occurs as fine- to medium-grained anhedral to interstitial crystals (up to 1 mm) with a moderate undulose extinction.

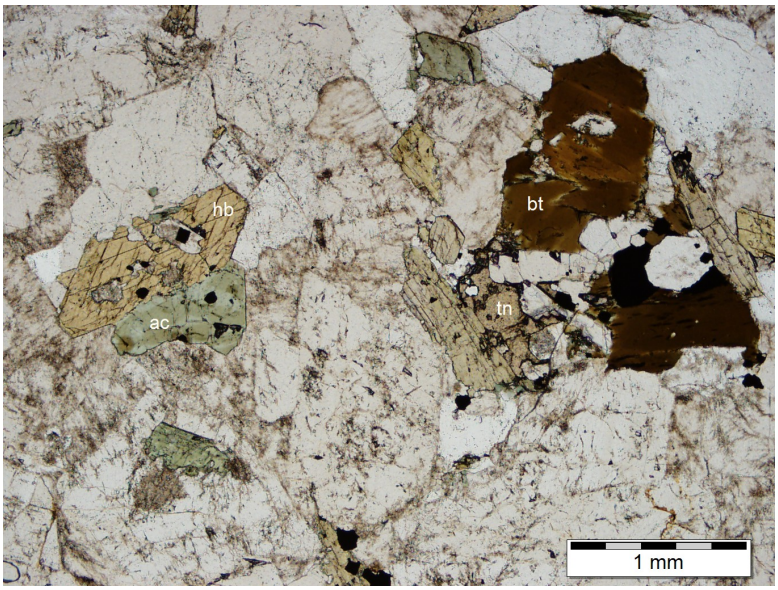
K-feldspar is microperthitic and forms interstitial crystals of up to 4 mm. The interstitial crystals show irregular boundaries with the plagioclase, the quartz, the hornblende, and the biotite, indicating a disequilibrium between the K-feldspar and the other magmatic minerals. In most cases, it is evident the K-feldspar grew at the expenses of hornblende, quartz, and biotite. The K-feldspar is subtly altered by a cryptocrystalline dispersion of unresolved material.

Biotite occurs as subhedral equant books up to 1 mm. The biotite is fresh to weakly altered (Fe-chlorite) and is randomly oriented within the quartz and K-feldspar aggregate. In rare cases, the biotite is intergrown with hornblende. In one case, the biotite epitaxially overprinted the hornblende.

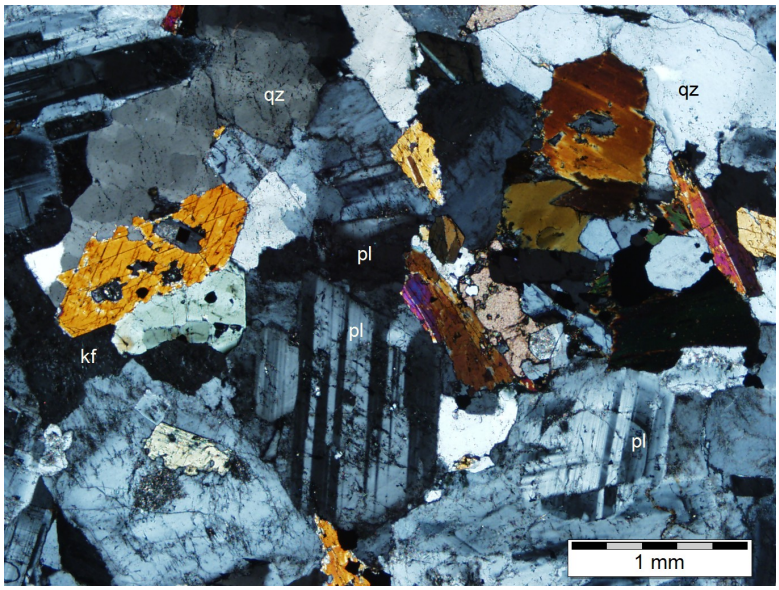
Hornblende(?) forms euhedral crystals immersed within the quartz-K-feldspar aggregate. The hornblende is characterized by distinct pleochroism with green to brown tints. Anhedral to skeletal crystals of **actinolite** show weak to distinct pleochroism with green tints (X: pale yellow-green; Y: light green; Z: light bluish-green). The presence of two types of amphibole should be ascertained by electron optic analysis (SEM-EDS) as well as the transition from hornblende to actinolite as the differences of pleochroism are very weak.

Magnetite is fine grained and anhedral. It is spatially associated with the hornblende and the biotite. The magnetite is weakly altered by very fine- to fine-grained hematite.

Anhedral crystals of **titanite** (up to 0.5 mm) are spatially associated with the biotite and the amphibole. In some cases, the titanite hosts fine-grained magnetite.

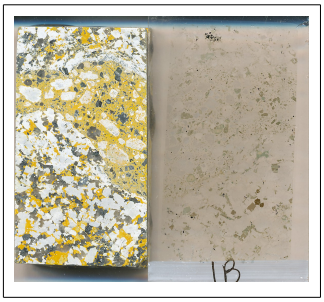


***Photomicrograph 1Aa**: Euhedral hornblende (hb), anhedral actinolite (ac), biotite (bt), and subordinate titanite (tn) are immersed within a quartzofeldspathic aggregate (see details in Photomicrograph 1Ab). Plane-polarized transmitted light.*



***Photomicrograph 1Ab**: Subhedral plagioclase is intergrown with anhedral to interstitial quartz (qz) and interstitial K-feldspar (kf). Crossed Nicols transmitted light.*

Sample 1B



Quartz-plagioclase-phyric quartz-monzonite

Granodiorite

A medium-grained inequigranular microstructure is crosscut by a porphyritic hypabyssal rock. The medium-grained domain is made up of subhedral plagioclase, anhedral quartz, subhedral K-feldspar, biotite, and actinolite. The hypabyssal rock consists of medium-grained euhedral phenocrysts of plagioclase, anhedral phenocrysts of quartz, and fine- to medium-grained crystals of amphibole and biotite, all of which are immersed in a fine-grained groundmass dominated by K-feldspar.

***Alteration*: white mica/clay** (weak, after plagioclase); **actinolite** (subtle to weak, after hornblende within the granodiorite); **Mg-chlorite** (subtle, after biotite); **epidote** (subtle in the granodiorite, subtle to weak in the microquartz-monzonite, after biotite); **magnetite** (weak within the granodiorite; subtle within the microquartz-monzonite); **hematite** (subtle after magnetite).

Mineral	***Modal %***	***Main Size Range (mm)***
quartz-plagioclase-phyric quartz-monzonite (~45% of PTS)		
phenocrysts		
plagioclase	12 – 14	up to 2
quartz	4 – 5	up to 1.2
hornblende and actinolite(?)	3 – 4	up to 1
[biotite] Mg-chlorite-epidote	2	[up to 0.7] up to 0.2
groundmass		
K-feldspar	18 – 20	up to 0.05
quartz	3 – 4	up to 1.2
magnetite	tr	up to 0.2
granodiorite (~55% of PTS)		
plagioclase (albite)	33 – 34	up to 2.5

quartz	14 – 15	up to 1
K-feldspar	4 – 5	up to 1
biotite	1 – 1.5	up to 1
magnetite	0.1 – 0.3	up to 0.5
Mg-chlorite	tr	up to 0.1
epidote	tr	up to 0.2

Plagioclase is medium grained (up to 2.5 mm) and is subhedral within the granodiorite. The crystals are subtly to weakly altered by a very fine-grained dispersion of unresolved material (white mica and/or clay?). The subhedral crystals show albite twinning and refractive indexes lower than the quartz, thus indicating their albitic composition. Within the volcanic rock, the plagioclase phenocrysts (up to 2 mm) are subhedral and are moderately altered by a very fine-grained and unresolved aggregate (white mica and/or clay?). Within the hypabyssal rock, the plagioclase phenocrysts are randomly oriented and prevail over the quartz phenocrysts with an approximate plagioclase-to-quartz ratio of 5:1.

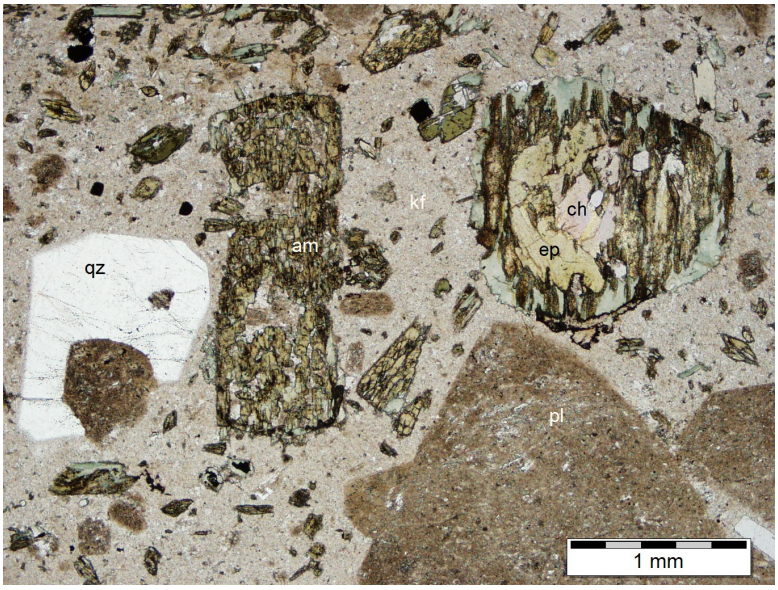
Quartz is anhedral to interstitial and medium grained (up to 1 mm) within the granodiorite. Within the microquartz-monzonite, the quartz forms rounded and embayed phenocrysts (up to 1.2 mm) immersed within a fine-grained groundmass dominated by interlobate K-feldspar.

Biotite forms subhedral books up to 1 mm within the granodiorite. The biotite crystals are subtly to weakly altered by epitaxial Mg-chlorite. Within the microquartz-monzonite, the biotite is strongly to completely altered by chlorite and epidote and is distinguished by the shape of its pseudomorphs only.

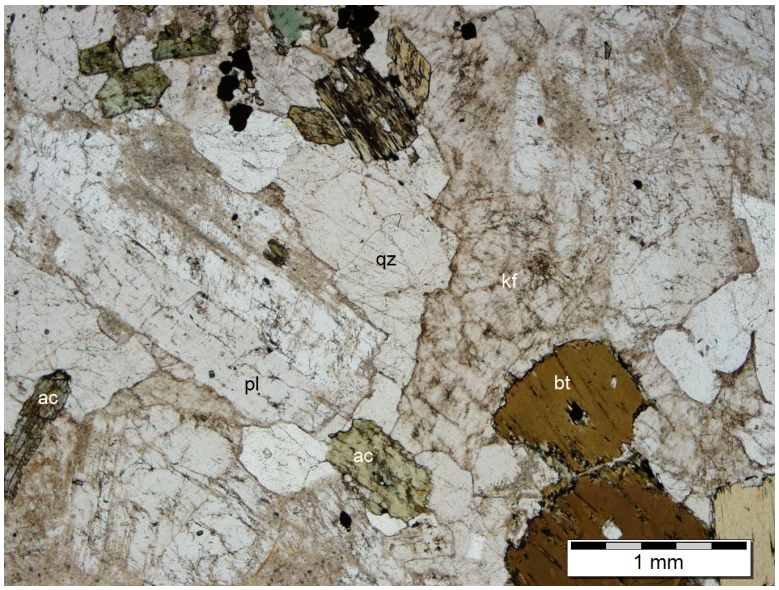
Amphibole is subordinate to the biotite in the granodiorite, in which it occurs as anhedral, generally elongate crystals of **actinolite**. The actinolite is distinguished by the green pleochroism (X: pale yellow-green; Y: light green; Z: light bluish-green) and probably replaced the magmatic hornblende during the magmatic deuteresis or the hydrothermal alteration. The amphibole is more abundant within the microquartz-monzonite, in which it forms fine- to medium-grained phenocrysts with brown to green pleochroism. Because of the brown tints of the pleochroism, I interpret the amphibole within the hypabyssal rock as **hornblende**; however, the composition of the amphiboles should be ascertained by electron optic methods.

K-feldspar is subhedral to anhedral within the granodiorite. The subhedral shape indicates that the K-feldspar mostly crystallized during the magmatic crystallization. The occurrence of thin discontinuous veinlets of K-feldspar is attributed to the K-feldspar circulation probably due to the intrusion of the microquartz-monzonite, which contains abundant K-feldspar in its groundmass. Subordinate quartz and probably plagioclase are associated with the K-feldspar within the groundmass.

Subhedral **magnetite** forms subhedral clusters of fine- to medium-grained crystals associated with actinolite- and chlorite-altered ferromagnesian minerals (hornblende and biotite).

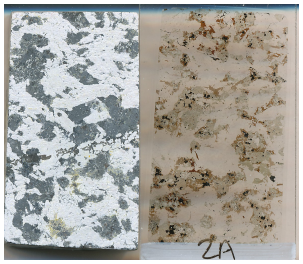


***Photomicrograph 1Ba**: Quartz-monzonite. Subhedral plagioclase (pl), anhedral quartz (qz), and anhedral hornblende (hb) are immersed within a fine-grained groundmass dominated by K-feldspar (kf). Pseudomorphs of epidote (ep) and chlorite (ch) completely replaced biotite. Plane-polarized transmitted light.*



***Photomicrograph 1Bb**: Granodiorite. Subhedral plagioclase (pl), interstitial quartz (qz), and K-feldspar (kf) are intergrown with subhedral biotite (bt). Actinolite (ac) probably replaced magmatic hornblende. In the upper part of the of the polished thin section, the biotite is completely replaced by chlorite and is spatially associated with fine-grained magnetite (opaque). Plane-polarized transmitted light.*

Sample 2A



Gabbro

Elongate subhedral prisms of coarse-grained (up to 4 mm long) plagioclase are intergrown with irregular subordinate domains of fine-grained biotite, clinopyroxene, magnetite, hornblende, and rare pyrite and chalcopyrite.

***Alteration*: hornblende** (subtle, uralitic after clinopyroxene); **white mica and/or clay** (subtle, after plagioclase); **quartz** (subtle as infill mineral).

Mineral	*Modal %*	*Main Size Range (mm)*
plagioclase (55% anorthite, labradorite)	75 – 76	up to 1.5 × 4
biotite	12 – 14	up to 1
clinopyroxene (augite?)	8 – 9	up to 1
magnetite	1.5 – 2	up to 1
hornblende	0.4 – 0.6	up to 0.2; rare up to 2
quartz	0.4	up to 1
pyrite	tr	up to 0.15; rare up to 1
apatite	tr	up to 0.2
ilmenite	tr	up to 0.15
chalcopyrite	tr	up to 0.1

Plagioclase dominates the composition of this polished thin section as elongate subhedral crystals up to 4 mm long. In some cases, the plagioclase is fractured and shows a moderate undulose extinction. The internal deformation of the plagioclase was probably generated during the magma crystallization. In some areas of the polished thin section, the elongate crystals show a weak preferred dimensional orientation. The plagioclase shows albite twinning and continuous growth zoning. The extinction angle of adjacent twinning sectors is 31° (a′:(010) in zone perpendicular to the {010}) and indicates an anorthite content of about 54% (i.e., **labradorite**). The plagioclase is subtly altered by very fine-grained dispersions of phyllosilicates (white mica and/or clay).

Medium-grained biotite and clinopyroxene form irregular clusters, which host subordinate amounts of magnetite, pyrite, and chalcopyrite. The **biotite** forms anhedral crystals and rare lamellae. The biotite rims and partially replaced anhedral to skeletal crystals of clinopyroxene.

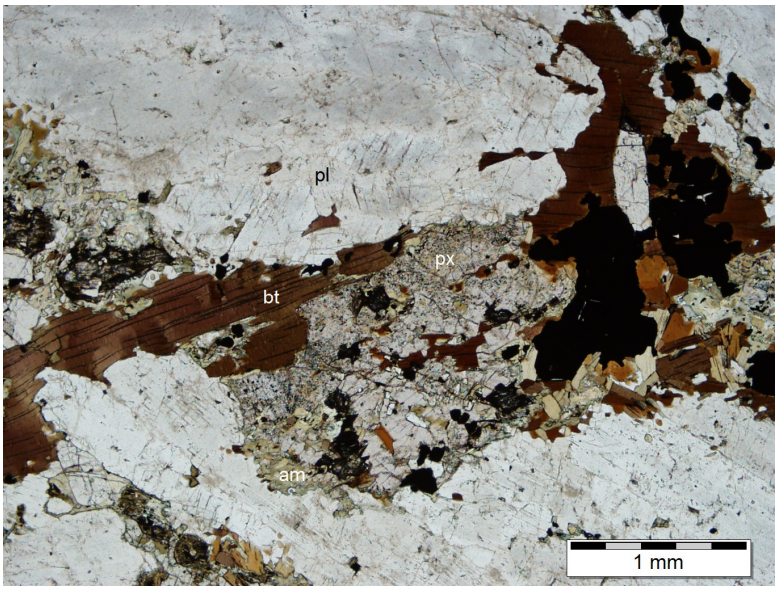
In some cases, the biotite is deformed and shows slightly bent crystals and undulose extinction.

Clinopyroxene is characterized by weak pleochroism with pale-green tints and extinction angles up to 37°. The optical features of the pyroxene are consistent with an augitic composition, which should be confirmed by electron optic analysis. Most of the pyroxene crystals contain fine- to very fine-grained pseudo-inclusions of **hornblende**, which define uralitic microstructures and in rare cases form anhedral crystals of up to 2 mm. The clinopyroxene crystals show high birefringence (up to second-order blue) and in some cases are twinned.

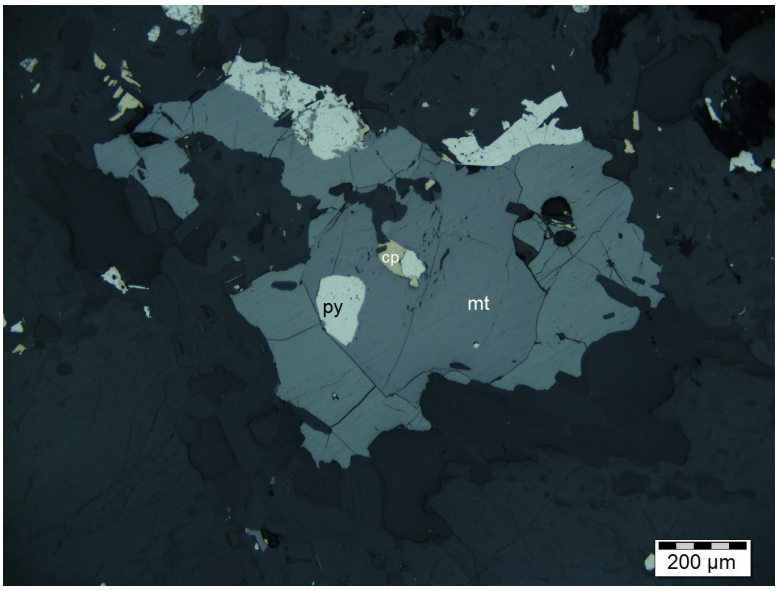
Magnetite is dispersed within the ferromagnesian clusters of biotite and clinopyroxene as inequigranular (up to 1 mm) and anhedral crystals. The magnetite is intergrown with rare **pyrite**, which in turn is intergrown and probably partially replaced by fine-grained rare **chalcopyrite**. Very rare **ilmenite** is intergrown with the magnetite and is distinguished by its anisotropic nature.

Apatite is rare and forms fine-grained droplets and interstitial crystals within the interstices of the plagioclase and the ferromagnesian minerals.

Quartz is concentrated within a vein-like domain as medium-grained crystals (up to 1 mm). The quartz vein is parallel to the weak iso-orientation of the plagioclase, and I interpret the crystallization of quartz as a late magmatic event.



***Photomicrograph 2Aa**: Abundant plagioclase (pl) is associated with irregular clusters of deformed biotite (bt), anhedral pyroxene (px), and magnetite (opaque). The pyroxene is partially replaced by amphibole and forms uralitic microstructures. Plane-polarized transmitted light.*



***Photomicrograph 2Ab**: Anhedral magnetite (mt) is intergrown with lesser pyrite (py) and rare chalcopyrite (cp). Plane-polarized reflected light.*

Sample 2B

Altered gabbro

The microstructure of this sample is similar to Sample 2A. Elongate prisms of plagioclase show a preferred dimensional iso-orientation and are associated with irregular clusters of ferromagnesian minerals, namely biotite, amphibole, magnetite, and lesser clinopyroxene. The plagioclase prevails over the ferromagnesian minerals and it is more abundant than in Sample 2A. The clinopyroxene relicts are less abundant than in Sample 2A and are replaced by biotite and hornblende. K-feldspar and magnetite filled in thin and discontinuous veinlets sub-parallel to the weak foliation defined by the plagioclase.

***Alteration*: hornblende** (weak, after clinopyroxene); **white mica and/or clay** (weak to moderate, after plagioclase); **quartz** (subtle to weak); **K-feldspar** (subtle to weak, as infill mineral).

Mineral	*Modal %*	*Main Size Range (mm)*
plagioclase (oligoclase)	76 – 77	1.5 × 4
white mica/clay?	8 – 10	up to 0.05
hornblende, and actinolite(?)	4 – 6	up to 2
biotite	4 – 6	up to 1.5
clinopyroxene (augite?)	2 – 3	up to 2
magnetite	1 – 1.5	up to 1
quartz	1 – 1.5	up to 1
Fe-chlorite	0.5 – 1	up to 0.1
K-feldspar	0.5 – 1	up to 0.2
pyrite	0.2 – 0.3	up to 0.5
epidote	tr	up to 0.35
apatite	tr	up to 0.1 × 0.5
titanite	tr	up to 0.02
chalcopyrite	tr	up to 0.15

Plagioclase forms elongate and subhedral prisms up to 1.5 × 4 mm. The plagioclase crystals

show a preferred dimensional orientation, which defines a weak magmatic foliation. The crystals are in some cases internally deformed and fractured and show undulose extinction. The plagioclase in this sample is more altered than that in Sample 2A, and its crystals host heterogeneously dispersed aggregates of fine-grained flakes of white mica and/or clay. Measuring the extinction angle between adjacent twinning sectors (a′:(010) in zone perpendicular to {010}) gave 21°, which indicates an oligoclasic composition (i.e., 37% anorthite). I interpret this composition as the result of magmatic deuteresis from a more anorthitic plagioclase. For this reason, I classify this sample as a gabbro that underwent post-magmatic alteration. This hypothesis should be confirmed by electron optic analysis of the core of the more preserved plagioclase crystals. Proof of the more intense alteration in this sample compared to Sample 2A is the less-abundant **clinopyroxene**, here occurring as uralitic, anhedral to skeletal relicts up to 0.5 mm.

Biotite is concentrated within irregular clusters of ferromagnesian minerals, among which is the uralitic clinopyroxene. The biotite crystals are anhedral and are weakly altered by epitaxial **Fe-chlorite** and very fine-grained **titanite**.

Hornblende forms anhedral crystals (up to 2 mm). The hornblende is distinguished by its typical cleavages at 120°, its brown to olive-green pleochroism, and its crystals partially to completely replacing the uralitic clinopyroxene.

Magnetite forms anhedral crystals of up to 1 mm, which preferentially crystallized within the biotite and the hornblende. Fine-grained magnetite is aligned within discontinuous K-feldspar-rich infill domains.

Quartz forms amoeboid crystals intergrown with the biotite and hornblende. In some cases, it is concentrated within irregular discontinuous infill domains. Because of its crystal shape and preferred association with the more altered clusters of ferromagnesian minerals, I interpret the quartz as a product of alteration.

***Photomicrograph 2B**: Anhedral hornblende (hb) replaced an anhedral relict of pyroxene (px) and is intergrown with magnetite (mt) and biotite (which is partially replaced by chlorite). The ferromagnesian minerals form irregular clusters immersed within weakly to moderately altered plagioclase (pl). Plane-polarized transmitted light.*

Sample 2C

Altered gabbro(?)

Medium- to coarse-grained subhedral crystals of plagioclase are randomly oriented and prevail over irregular clusters and sparse crystals of biotite, hornblende, magnetite, and rare relicts of clinopyroxene. K-feldspar filled in irregular veinlets and forms anhedral crystals intergrown with the plagioclase.

***Alteration*: K-feldspar** (weak to moderate, as infill mineral and overprinting the plagioclase); **quartz** (subtle, as infill mineral); **white mica** (subtle, after plagioclase); **titanite-epidote** (subtle, after biotite and hornblende); **pyrite** (subtle, after pyrrhotite?); **chalcopyrite** (subtle).

Mineral	*Modal %*	*Main Size Range (mm)*
plagioclase	75 – 77	up to 1.5 × 4
K-feldspar	10 – 11	up to 1
biotite	4 – 6	up to 2.5
hornblende (and actinolite?)	4 – 5	up to 1
clinopyroxene	1	up to 0.5
magnetite	1	up to 0.5
quartz	1	up to 0.4
white mica	1	up to 0.02
titanite	tr	up to 0.02
epidote	tr	up to 0.5
zircon	tr	up to 0.01
pyrite	tr	up to 0.05
chalcopyrite	tr	up to 0.02
pyrrhotite	tr	up to 0.02

Plagioclase forms subhedral crystals ranging from 0.5 mm up to 1.5 × 4 mm. The plagioclase crystals are randomly oriented and this differs from the microstructures described in Samples 2A and 2B. The plagioclase crystals show albite and albite-Carlsbad twinning and are weakly altered by heterogeneously distributed cryptocrystalline aggregates with high birefringence (white mica/clay?). Some of the crystals show continuous growth zonation. The composition

of the plagioclase was not determined due to the lack of properly oriented crystals; however, the extinction angle between adjacent sectors of the albite twinning are generally smaller than 15°. The plagioclase shows interlobate boundaries in contact with the anhedral to interstitial K-feldspar, indicating a disequilibrium and exchange between the two minerals.

K-feldspar is concentrated within irregular but straight infill domains. This indicates that its crystallization occurred after the end of the magmatic crystallization, within a mostly solidified crystal mesh (see Photomicrograph 2C). The K-feldspar also occurs as anhedral crystals, which are intergrown with the plagioclase and host fine- to very fine-grained perthitic stringlets.

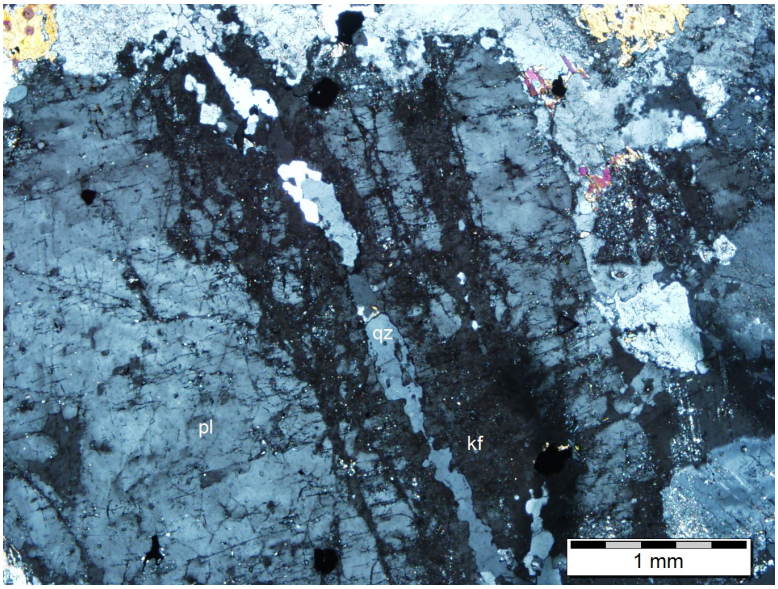
Biotite forms medium- to coarse-grained (up to 2.5 mm) anhedral crystals and forms irregular clusters in association with hornblende, magnetite, and clinopyroxene. The biotite is relatively fresh and is not altered by chlorite as was the case in Sample 2B.

Hornblende is anhedral and is characterized by the typical pleochroism with brown to green tints. The hornblende rims and in some cases includes skeletal relicts of **clinopyroxene**. Judging from the presence of some crystals with blue-green pleochroism, actinolite may be present.

Quartz is fine to medium grained and is preferentially associated with the ferromagnesian clusters. It occurs as interstitial crystals between the feldspars.

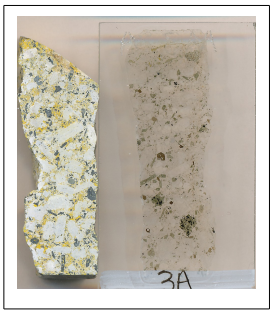
Magnetite preferentially crystallized within the biotite and the hornblende crystals and crystal clusters. In this sample, the magnetite is associated with rare pyrite.

Fine-grained anhedral pyrite is less abundant than in Samples 2A and 2B. Some of the shapes of the pyrite and the occurrence of very rare, very fine-grained **pyrrhotite** armoured within the magnetite indicate that the pyrite may have replaced the pyrrhotite. **Chalcopyrite** is very rare and very fine grained and is spatially associated with the magnetite and the pyrite.



***Photomicrograph 2C**: A coarse-grained crystal of plagioclase (pl) is crosscut by an irregular veinlet of quartz (qz). K-feldspar (kf) is spatially associated with the veinlet. This microstructure indicates that at least some of the quartz and the K-feldspar filled in a brittle, therefore solidified, rock. Crossed Nicols transmitted light.*

Sample 3A



Plagioclase-phyric monzodiorite

Quartz-K-feldspar vein

Euhedral inequigranular (up to 2 × 5 mm) phenocrysts of plagioclase and euhedral (0.6 × 3 mm) hornblende and subhedral biotite (up to 2 mm) are immersed within a fine-grained groundmass of K-feldspar, quartz, and plagioclase(?). A quartz-K-feldspar vein (at least 2 mm thick) crosscut the porphyritic rock in the upper part of the polished thin section.

***Alteration*: chlorite** (strong, after biotite); **white mica** (subtle, after plagioclase); **epidote** (subtle after biotite, hornblende, and plagioclase?).

Mineral	***Modal %***	***Main Size Range (mm)***
monzodiorite (95% of PTS)		
phenocrysts		
plagioclase	57 – 58	up to 2 × 5
hornblende	4 – 5	up to 0.6 × 3
biotite	1 – 1.2	up to 2
magnetite	0.4 – 0.5	up to 0.3
groundmass		
K-feldspar	20 – 22	up to 0.2
quartz	11 – 12	up to 0.15
plagioclase(?)	2 – 3	up to 0.1
biotite	0.5 – 1	up to 0.02
hornblende	tr	up to 0.1
magnetite	tr	up to 0.1
epidote	tr	up to 0.1
white mica?	tr	up to 0.02
zircon	tr	up to 0.02
hematite	tr	up to 0.02
quartz-K-feldspar vein (5% of PTS)		

quartz	4	up to 0.5
K-feldspar	1	up to 1

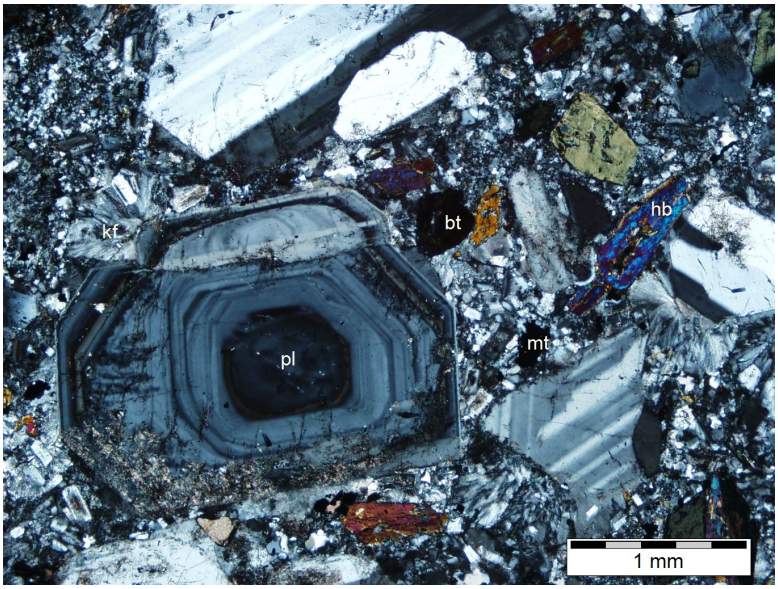
Plagioclase forms randomly oriented euhedral crystals immersed within a fine-grained groundmass of K-feldspar, quartz, probable plagioclase, and fine- to very fine-grained ferromagnesian minerals (i.e., amphibole and biotite). The crystal size of the plagioclase ranges from 0.1 mm to 2 × 5 mm. Within the groundmass, albite-rich plagioclase forms myrmekitic intergrowths within the anhedral K-feldspar, which dominates the composition of the groundmass. The plagioclase probably occurs within the groundmass as very fine-grained crystallites. The plagioclase phenocrysts show albite twinning and euhedral oscillatory growth zoning. The refractive indexes of the plagioclase are greater than those of quartz. The extinction angle between adjacent albite twins (a′:(010)) is 26°. This would indicate a 46% anorthite content; however, the measurement was done on a non-ideal section, and this estimate should be further ascertained by electron optic analysis.

K-feldspar dominates the composition of the fine-grained groundmass, in which it is anhedral and is intergrown with fine-grained **quartz** and subordinate crystals of biotite and hornblende. Medium-grained anhedral crystals of K-feldspar are subordinate to the inequigranular (up to 1 mm) polygonal to interlobate aggregate of quartz within the vein. Because the boundaries between the K-feldspar in the groundmass and the plagioclase are straight, and despite the presence of a K-feldspar-bearing vein, I interpret this microstructure as evidence that the K-feldspar within the groundmass crystallized during the late magmatic stage. From this interpretation, the classification of this sample as monzodiorite follows. The presence of myrmekites can also be interpreted as the product of the slow cooling of the K-feldspar, which will not be consistent with a supposed hydrothermal origin.

Hornblende forms subhedral prisms (up to 0.6 × 3 mm) dispersed within the groundmass. The hornblende shows a distinct pleochroism with brown and green tints. The hornblende is subtly altered by very fine-grained unresolved dispersions, which I interpret as epidote.

Biotite is subordinate to the hornblende as a phenocrystic mineral. It forms subhedral crystals up to 2 mm, and in some cases the biotite is strongly altered by chlorite, magnetite, and subordinate epidote.

Magnetite preferentially occurs within the hornblende and, to a lesser extent, is dispersed within the groundmass. The magnetite crystals are subtly altered by hematite.



***Photomicrograph 3A**: Euhedral phenocrysts of plagioclase (pl) show euhedral oscillatory growth zoning. Hornblende (hb), subordinate biotite (bt), and magnetite (mt) are immersed within a fine-grained groundmass dominated by the K-feldspar (kf). Crossed Nicols transmitted light.*

Sample 3B

Altered monzogranite

Quartz-dolomite vein

Calcite veinlets

A medium-grained granular aggregate of anhedral quartz, subhedral pseudomorphs after plagioclase, and anhedral K-feldspar is crosscut by a composite 13 mm thick vein of quartz and dolomite, and thin calcite(?) veinlets.

***Alteration*: clay** (complete, after plagioclase); **calcite-dolomite(?)** (strong, after ferromagnesian minerals, and as infill minerals); **quartz?** (subtle, and as infill mineral); **hematite** (weak, after magnetite).

Mineral	*Modal %*	*Main Size Range (mm)*
altered monzogranite (56% of PTS)		
quartz	20 – 21	up to 2
[plagioclase] clay (kaolinite?)	18 – 19	[up to 2.5] up to 0.01
K-feldspar	12 – 13	up to 1
calcite	2 – 3	up to 0.1
hematite	1 – 1.5	up to 0.25
magnetite	tr	up to 0.0.3
rutile?	tr	up to 0.02
mineral X	tr	~0.06
quartz-dolomite infill (39% of PTS)		
quartz	36	up to 0.1
dolomite	3	up to 0.1
hematite	tr	up to 0.02
iron oxides	tr	cryptocrystalline
rutile	tr	up to 0.01

calcite veinlets (5%)		
calcite	5	up to 0.1

Quartz forms anhedral crystals up to 2 mm in the strongly altered magmatic rock and forms at least three generations of fine-grained aggregates within the 13 mm thick vein. The first fine-grained aggregate (up to 0.1 mm) is made up of fine-grained equant to elongate quartz crystals intergrown with lesser, randomly oriented anhedral equant to slightly elongate crystals of dolomite. A finer-grained (up to 0.05 mm) quartz aggregate filled in the first infill and is characterized by lesser amounts of **dolomite**. The second fine-grained infill contains a median zone 0.2–0.3 mm thick and made up of sub-prismatic quartz oriented at high angles to the median zone, together with subordinate carbonate. I tentatively interpret the carbonate as dolomite because of its slow reaction to cold dilute (10%) HCl. Within the host rock, most veinlets reacted slowly, although some of them reacted briskly. The presence of both **calcite** and dolomite is possible and should be ascertained by electron optic analysis.

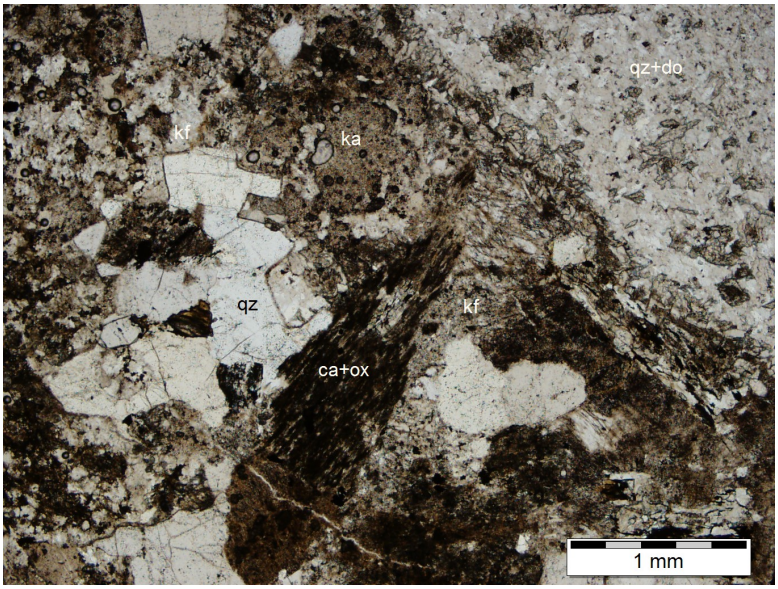
Subhedral pseudomorphs of probable plagioclase are completely replaced by a very fine aggregate of clay. The clay shows low birefringence, and I tentatively interpret it as kaolinite. Electron optic analysis or short-wave infrared spectroscopy are the most appropriate techniques to ascertain the nature of the clay in this case. The pseudomorphs are randomly oriented and do not show any evidence of a magmatic flow.

K-feldspar is interstitial and medium grained (up to 1.5 mm). The K-feldspar is subtly altered by heterogeneously dispersed cryptocrystalline material. In some cases, the K-feldspar forms anhedral crystals, which are the only evidence supporting the magmatic origin of the K-feldspar.

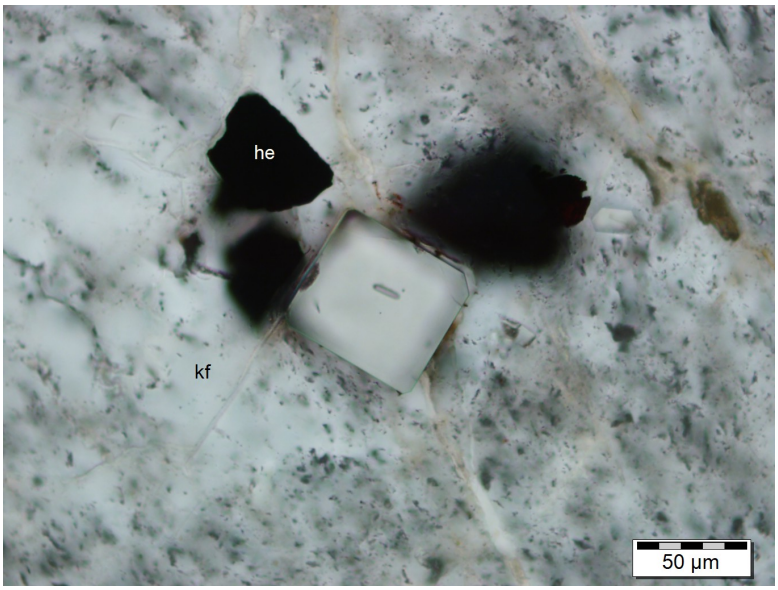
Carbonate replaced all the ferromagnesian minerals within the medium-grained host rock. In some cases the calcite, in association with variable amounts of **iron oxides** and **rutile(?)**, forms subhedral to anhedral pseudomorphs. Some of the pseudomorphs show elongate and prismatic shapes and suggest the replacement of amphibole. The replacement of the ferromagnesian minerals probably occurred during the carbonate infill. Thin irregular veinlets crosscut the host rock and were crosscut by the quartz-dolomite vein.

Hematite forms equant anhedral crystals, which are preferentially associated and clustered within the carbonate-rich replacement patches. The hematite strongly to intensely replaced **magnetite**, which in some cases is still preserved within the core of hematite as anhedral relicts.

A cubic, transparent and probably isotropic mineral (X) is unresolved. It shows refractive indexes greater than the K-feldspar (see Photomicrograph 3Bb) and crystallized within the fractured K-feldspar in association with fine-grained hematite.



***Photomicrograph 3Ba**: Anhedral crystals of quartz (qz) subhedral pseudomorphs of kaolinite after plagioclase (ka), interstitial K-feldspar and elongate pseudomorphs of calcite and iron oxides, probably after amphibole (ca+ox) form a medium-grained microstructure crosscut by a quartz and dolomite (qz+do) vein. Plane-polarized transmitted light.*



***Photomicrograph 3Bb**: A unresolved mineral with a cubic shape (in the centre of the photomicrograph) crystallized within the fractured K-feldspar. Plane-polarized transmitted light.*

Sample 4B

Quartz-monzonite

A medium-grained intergranular microstructure is defined by subhedral plagioclase, anhedral to interstitial K-feldspar, quartz, and subhedral to anhedral pseudomorphs of chlorite and actinolite.

***Alteration*: clay(?)** (moderate, after plagioclase and K-feldspar); **Fe-chlorite-actinolite** (weak, completely replacing the ferromagnesian minerals); **epidote** (weak, overprinting the chlorite-actinolite pseudomorphs and the plagioclase); **calcite** (subtle).

Mineral	*Modal %*	*Main Size Range (mm)*
plagioclase	40 – 41	up to 1.2 long
K-feldspar	28 – 29	up to 0.1
Fe-chlorite	8 – 10	up to 0.05
clay(?)	7 – 8	~0.001
quartz	6 – 7	up to 0.35
epidote	4 – 5	up to 0.1
actinolite	3 – 4	up to 0.2
magnetite	0.2 – 0.3	up to 0.2
iron oxides	tr	cryptocrystalline
calcite	tr	up to 1
titanite	tr	up to 0.02
chalcopyrite	tr	up to 0.1

Plagioclase forms subhedral and medium-grained elongate prisms (up to 1.2 mm long). The plagioclase crystals are randomly oriented and define an intergranular microstructure, in which the interstitial spaces between the plagioclase are occupied by interstitial K-feldspar, pseudomorphs of chlorite and actinolite after ferromagnesian minerals, and quartz. The plagioclase is moderately altered by a very fine-grained dispersion of unresolved material (clay and/or epidote?) and epidote.

K-feldspar forms anhedral to interstitial crystals moderately altered by the same cryptocrystalline aggregate altering the plagioclase. In some cases they host fine-grained micrographic intergrowths, which suggest the K-feldspar crystallized during the magmatic

stage.

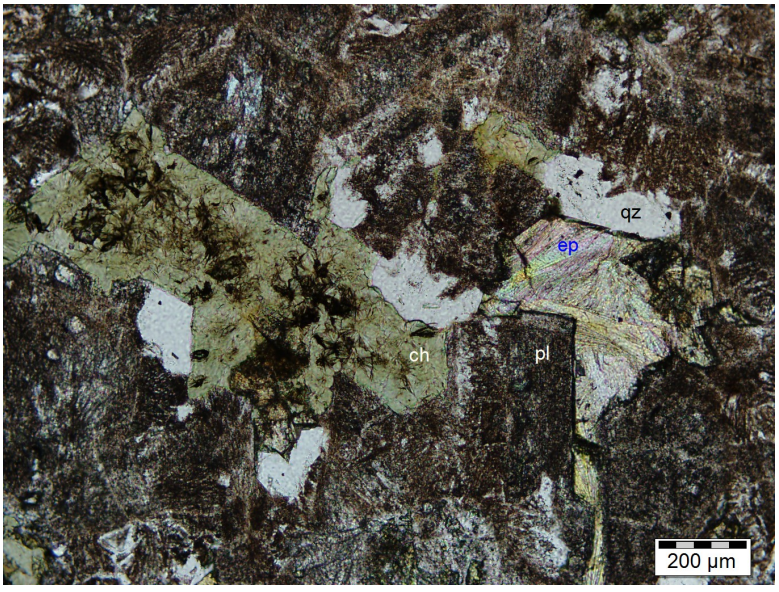
Quartz is anhedral. It occurs within the interstitial spaces between the plagioclase crystals and is intergrown with the K-feldspar to define micrographic intergrowths. The micrographic intergrowths are a type of intergrowths in which the two minerals—quartz and K-feldspar in this sample—form fine-grained portions with the same crystallographic orientations, which indicates that the portions are part of single crystals of quartz and K-feldspar intergrown during their crystallization, which likely occurred during the final stage of the magmatic cooling stage.

Irregular to subhedral pseudomorphs of fine-grained **chlorite** and **actinolite** completely replaced the ferromagnesian mineral(s). The chlorite shows positive elongation and a weak green pleochroism, thus it is iron-rich. The pseudomorphs are preferentially overprinted by fine-grained epidote, which also forms fine-grained replacement patches overprinting the plagioclase.

Magnetite is anhedral (up to 0.2 mm) and its crystals are preferentially dispersed within the chlorite-actinolite pseudomorphs.

Calcite forms interstitial replacement patches and is distinguished by its high relief, extreme birefringence, and brisk reaction to cold dilute (10%) HCl.

Chalcopyrite is very rare and is dispersed within the ferromagnesian pseudomorphs.



***Photomicrograph 4B**: Subhedral plagioclase (pl), irregular pseudomorphs of chlorite (ch), and interstitial quartz (qz) define an intergranular microstructure. The epidote (ep) overprinted the magmatic microstructure. Plane-polarized transmitted light.*

Glossary of Microstructural and Petrologic Terms Used in the Text

a, b, c: Symbols used to describe the crystallographic axes of the crystals.

amoeboid: With strongly curved and lobate interlocking grain boundaries; like an amoeba.

anhedral: Describes irregular grains showing no crystal-face boundaries.

cleavage domain*:* Layer or lens with a relatively high content of elongate grains (such as micas or amphiboles) and low content of equidimensional grains (such as quartz, feldspar, or carbonate). Together with microlithons they make up a spaced foliation. Micas in cleavage domains commonly have a preferred orientation parallel to or at a small angle to the domain.

epitaxial (epitaxy): Nucleation and growth of a mineral in another with a systematic relationship between the two crystal structures.

euhedral: Describes a mineral with crystal faces.

foliation: Planar microstructural element that occurs penetratively on a mesoscopic scale in a rock. Primary foliation includes bedding and igneous layering; secondary foliations are formed by deformation-induced processes.

groundmass: Aggregate that is distinctly finer-grained than the phenocrysts in an igneous rock.

interlobate: With irregular lobate grain boundaries.

interstitial: Describes a mineral occupying angular cavities or interspace fillings between other minerals.

perthite: Intergrowth of albite lamellae in K-feldspar, generally formed by solid-state exsolution of a homogeneous alkali feldspar solid solution during slow cooling in igneous and metamorphic rocks.

phenocryst: Crystal (commonly euhedral) that is distinctly larger than the other minerals around it.

pleochroism: A property of certain crystals of absorbing light to an extent that depends on the orientation of the vector of the light with respect to the optic axes of the crystal.

poikilitic: Describes a crystal with numerous, randomly oriented inclusions of other minerals.

pseudomorph: Mineral or group of minerals developed by partial to complete alteration or weathering of a primary mineral. The pseudomorph preserves the shape, size, and volume of the mineral that it has replaced.

relict (residual structure): Structure remaining after a deformation or metamorphic event, such as a porphyroclast in a mylonite, a phenocryst in a metamorphosed volcanic rock, or a partially replaced porphyroblast in a retrograde metamorphic rock. “Relict” is

sometimes used as a synonym for “residual.”

undulose (undulatory) **extinction**: Wavy, nonuniform extinction in a single grain, owing to slight bending of the crystal. Patchy, irregular undulose extinction can be due to submicroscopic fractures, kinks, and dislocation angles.

X, Y, Z: symbols used to describe the optical indicatrix of the crystals.

T.N.
1°32'
22° 39' E
Grid north
Magnetic north
Annual change decreasing 22.1'

396000 mE
398000 mE
400000 mE
402000 mE
404000 mE
6798000 mN
6796000 mN
6794000 mN
6792000 mN

HOPKINS NORTH ZONE
HOPKINS SOUTH ZONE
SEE INSET
PROPERTY BOUNDARY
AISHIHIK LAKE ROAD
PROPERTY BOUNDARY
5300
4600
4300
3400

xx Diamond drill hole (1977, `78, `89 and 2011)
Percussion drill hole (2011)
Percussion drill hole (1980)
Discovery showing
Significant 1968 composite chip sample
1970 bulldozer trenches
1989 bulldozer trenches
2007 bulldozer trenches
Unknown trenches
Hopper Main Road
Trail

Lowlands
Escarpment
Plateau

AD claims
Hop claims
ML claims
Guy claims
Acme claims

INSET (HOPKINS SOUTH ZONE)
398000 mE
6795000 mN
6794500 mN
DDH-HOP-11-06
DDH-HOP-11-05
DDH-HOP-11-04
DDH-HOP-11-03
DDH-HOP-11-02
DDH-HOP-11-01
TH-1
TH-2
TH-3
TH-4
TH-5
TH-7
TH-8
TH-9
TH-10
HA-1
HA-2
HA-3
HA-4
HA-5
P-1
P-2
P-3
P-4
P-5
P-15
P-17
P-18A
P-18B
P-19
P-22
P-23
P-24
P-26
P-27
P-28
P-29
P-30
P-31
P-32
P-33
P-34
P-35
P-36A
P-38
P-39
0
500 m

STRATEGIC METALS LTD.

FIGURE 3
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

HISTORICAL WORKINGS & GEOMORPHOLOGY

HOPPER PROPERTY

0 1 km

UTM ZONE 8, NAD 83, 115H/02,07

FILE: 2014/Hopper | DATE: MAY 2015

T.N.
1°32'
21° 04' E
Grid north
Magnetic north
Annual change decreasing 21.7'

397 000 mE
398 000 mE
6 798 000 mN
6 797 000 mN

TR-14-11
(see report for results)

magn
magn-cp-py
DMcs, DMs
px-act +/- magn, po
gnt-px-po
px-grn-ep-magn + tr. cp
DM1q, DMcs + py
DM1q-s
qtz rich DMm, DMcs, DMs + cp
ep-gnt-px-act +/- py, cp, mal
DM1q, DMh
DM1q, DMh +/- rusty
DM1q, DMh +/- rusty
px-act
DM1q
DMcs, DMs
DM1q, DMcs, DMs
3,700
4,200
DMcs, DMs + py
DMh, DM1q + mal
jarosite, rusty
DM1q, DMs +/- rusty
PDH-HOP-11-15
PDH-HOP-11-14
DM1q
DM1q +/- DMcs
PDH-HOP-11-16
massive to semi-massive magn
PDH-HOP-11-13
PDH-HOP-11-41
PDH-HOP-11-42
DM1q-s +/- DMcs + tr cp
DM1q, DMmb
DM1q
DM1q +/- DMcs
DMcs, DMs
DM1s, granitized
DM1q-s
magn-serp
gnt-px
DM1q, limy, DMcs, DMs + cp + mal
ep + mal
DM1q-s, granitized + cp
DM1q-s
DM1q-s
qtz-carb veins
DM1q, DMs xenos + cp
PDH-HOP-11-17
PDH-HOP-11-12
PDH-HOP-11-40
PDH-HOP-11-43
PDH-HOP-11-44
PDH-HOP-11-45
rusty
orange, carb altered frx stockwork
PDH-HOP-11-39
DM1s-g
DM1q + py
qz-carb vein with mal + cp
vein
cc
PDH-HOP-11-18
PDH-HOP-11-11
DM1q
PDH-HOP-11-46
disseminated cp + frx controlled
magn +/- rusty
PDH-HOP-11-19
PDH-HOP-11-10
PDH-HOP-11-38
PDH-HOP-11-48
PDH-HOP-11-47
PDH-HOP-11-23
shear, slicks, qzt-carb veins
PDH-HOP-11-22
PDH-HOP-11-20
PDH-HOP-11-09
PDH-HOP-11-37
PDH-HOP-11-49

TERTIARY

- Tcb - Chalcedony breccia
- Tb - Basalt, basalt porphyry
- Quartz-carbonate breccia - rusty weathering and calcite healed
- Quartz-carbonate vein - rusty weathering
- IES2 - Porphyritic dyke - light grey to pinkish-grey, feldspar-hornblende +/- biotite
- Ttra - Trachyte, rhyolite and aplite
- Tlm - Lamprophyry or meta-intrusive - heavy biotite rich rock with elongate clasts of marble up to 0.5m long
- Tap - Andesite, andesite porphyry
- Td - Diorite

LATE CRETACEOUS

- LKg - Hopper Pluton - coarse grained, equigranular biotite-hornblende granodiorite containing 5-15% mafic minerals

DEVONIAN TO MISSISSIPPIAN

- DMh - grey, fine grained, rusty weathering, siliceous hornfels
- DMs - skarn dominantly comprising pyroxene, epidote, chlorite, actinolite and./or garnet and may host massive to semi-massive magnetite
- DMcs - medium to pale green and mottled or banded calc-silicate
- DMm - white to grey, recrystalized and well bedded marble
- DMmb - (+/-)biotite-hornblende-quartz schist to gneiss
- DM1 - Interbedded micaceous quartzite, biotite-quartz schist to gneiss and biotite±muscovite quartz-feldspar schist to gneiss
  - Micaceous quartzite - 1q
  - Biotite-quartz schist - 1s
  - Biotite-quartz gneiss - 1g
  - Biotite+/-muscovite-quartz-feldspar schist to gneiss - 1f

2011 RC drill hole
2014 Hand trench
Outcrop
Fracture
Bedding
Foliation
Contact defined and inferred
Limit of mapping

act - actinolite
cc-chalcocite
cp - chalcopyrite
epi - epidote
gnt - garnet
hfs - hornfels
mal - malachite
magn - magnetite
px - pyroxene
py - pyrite
serp - serpentine
xeno - xenolith

After Stephen and Feulgen, 1989

STRATEGIC METALS LTD.

FIGURE 6
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY GEOLOGY - NORTH

HOPPER PROPERTY

0 250m
UTM ZONE 8, NAD 83, 105F/06, Contour line intervals 20 m

FILE: ...2014/HOPPER | DATE: MAY 2015

T.N.
1°32'
21° 04' E
Grid north
Magnetic north
Annual change decreasing 21.7'

397 000 mE

6 795 000 mN

6 794 000 mN

A

A'

★TR-14-07
★TR-14-08
★TR-14-09
★TR-14-10
★TR-14-01
★TR-14-02
★TR-14-03
★TR-14-04
★TR-14-05
★TR-14-06

PDH-HOP-11-03
PDH-HOP-11-31
PDH-HOP-11-30
PDH-HOP-11-02
PDH-HOP-11-01
PDH-HOP-11-29
PDH-HOP-11-28
DDH-HOP-11-06
DDH-HOP-11-05
DDH-HOP-11-04
DDH-HOP-11-03
DDH-HOP-11-02
DDH-HOP-11-01

DM1q
DM1s
DM1q + mal + moly
rusty
magn-act-serp-px +/- cp, mal, woll
gnt-px-act/trem/ woll-serp-magn + cp + mal
magn-px-act-gnt + cp
gnt-px-act/trem + mal
DMcs, DMs
DM1q, DMcs + tr. cp
DM1q, DMh, DM1q
DM1q, DMm, DMcs
act-px-trem-magn
gnt-px-act + mal + cp
magn
DM1q-s
DM1q-s-g
DM1q, DMh
DM1q, DMcs, DMh
DM1q +/- DMcs
woll-ep-px-act
px-act + cp
DM1q, DMcs, DMs px-act + cp + py

CROSS-SECTION A - A'

Elevation (m)
2 x Vertical Exageration
1,250
1,200
1,150
1,110
1,050
1,000
950
A
A'
0
250m

TERTIARY

- Tcb - Chalcedony breccia
- Tb - Basalt, basalt porphyry
- Quartz-carbonate breccia - rusty weathering and calcite healed
- Quartz-carbonate vein - rusty weathering
- IES2 - Porphyritic dyke - light grey to pinkish-grey, feldspar-hornblende +/- biotite
- Ttra - Trachyte, rhyolite and aplite
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- Tap - Andesite, andesite porphyry
- Td - Diorite

LATE CRETACEOUS

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DEVONIAN TO MISSISSIPPIAN

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- DMcs - medium to pale green and mottled or banded calc-silicate
- DMm - white to grey, recrystalized and well bedded marble.
- DMmb - (+/-)biotite-hornblende-quartz schist to gneiss
- DM1 - Interbedded micaceous quartzite, biotite-quartz schist to gneiss and biotite±muscovite quartz-feldspar schist to gneiss.
  Micaceous quartzite - 1q
  Biotite-quartz schist - 1s
  Biotite-quartz gneiss - 1g
  Biotite+/-muscovite-quartz-feldspar schist to gneiss - 1f

- 2011 RC drill hole
- 2011 Diamond drill hole
- 2014 Hand trench (see report for details)
- Outcrop
- Fracture
- Bedding
- Foliation
- Contact defined and inferred
- Limit of mapping

act - actinolite
cc-chalcocite
cp - chalcopyrite
epi - epidote
gnt - garnet
hfs - hornfels
mal - malachite
magn - magnetite
moly - molybdenite
px - pyroxene
py - pyrite
serp - serpentine
trem - tremolite
xeno - xenolith
woll - wollastinite

After Stephen and Feulgen, 1989

STRATEGIC METALS LTD.

FIGURE 7
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PROPERTY GEOLOGY - SOUTH
HOPPER PROPERTY

0 250m
UTM ZONE 8, NAD 83, 105F/06, Contour line intervals 20 m

FILE: ...2014/HOPPER | DATE: MAY 2015

T.N.
1°32' 21° 04' E
Grid north
Magnetic north
Annual change decreasing 21.7'

396 000 mE
398 000 mE
400 000 mE
6 798 000 mN
6 796 000 mN
6 794 000 mN

HOPKINS NORTH ZONE
HOPKINS SOUTH ZONE
PROPERTY BOUNDARY

COMPLEX CONTACT ZONE
JG SHOWING
LV SHOWING
DISCOVERY SHOWING

2013 ROCK SAMPLE LOCATIONS

2013 Rock Sample
Hopper Main Road
Trail

PROPERTY BOUNDARY

0 2 km

TERTIARY

- Tcb - Chalcedony breccia
- Tb - Basalt, basalt porphyry
- Quartz-carbonate breccia - rusty weathering and calcite healed
- Quartz-carbonate vein - rusty weathering
- IES2 - Porphyritic dyke - light grey to pinkish-grey, feldspar-hornblende +/- biotite
- Ttra - Trachyte, rhyolite and aplite
- Tlm - Lamprophyry or meta-intrusive - heavy biotite rich rock with elongate clasts of marble up to 0.5m long
- Tap - Andesite, andesite porphyry
- Td - Diorite

LATE CRETACEOUS

- LKg - Hopper Pluton - coarse grained, equigranular biotite-hornblende granodiorite containing 5-15% mafic minerals

DEVONIAN TO MISSISSIPPIAN

- DMh - grey, fine grained, rusty weathering, siliceous hornfels
- DMs - skarn dominantly comprising pyroxene, epidote, chlorite, actinolite and./or garnet and may host massive to semi-massive magnetite
- DMcs - medium to pale green and mottled or banded calc-silicate
- DMm - white to grey, recrystalized and well bedded marble
- DMmb - (+/-)biotite-hornblende-quartz schist to gneiss
- DM1 - Interbedded micaceous quartzite, biotite-quartz schist to gneiss and biotite±muscovite quartz-feldspar schist to gneiss
  - Micaceous quartzite - 1q
  - Biotite-quartz schist - 1s
  - Biotite-quartz gneiss - 1g
  - Biotite+/-muscovite-quartz-feldspar schist to gneiss - 1f

Outcrop

Contact defined and inferred

act - actinolite
cp - chalcopyrite
frxs - fractures
gnt - garnet
mal - malachite
magn - magnetite
moly - molybdenite
po - pyrrhotite
px - pyroxene
py - pyrite
qzt-carb - quartz-carbonate
serp - serpentine
trem - tremolite
woll - wollastonite
xenos - xenoliths

Significant 2013 rock sample with assay in tables

2011 percussion drill hole highlights
- > 0.5% Cu
- 0.2 - 0.5% Cu
- > 0.1 < 0.2% Cu

2014 Hand trench (see report for details)

Significant 1968 composite chip sample
Significant 2007 chip sample
Significant 2006 rock/chip sample
1968 observed surface copper mineralization
Hopper Main Road
Trail

After Stephen and Feulgen, 1989

Significant 2013 Rock and Chip Sample Results

Hopkins North Zone

Rock Type	Sample No.	Sample Type	Cu (%)	Au (g/t)	Ag (g/t)	Mo (ppm)
Skarn	L865804	Chip (1 m)	0.86	0.7	12.45	1
Granodiorite	L865805	Specimen	2.67	0.021	18.75	25
Granodiorite	L865806	Specimen	0.12	0.018	1.30	5
Quartz-carb vein	L865807	Specimen	0.18	0.018	1.51	24
Skarn	L865809	Specimen	2.27	0.4	18.00	2
Metabasite	L865815	Specimen	1.51	0.052	9.82	24
Skarn	L865726	Specimen	<0.001	0.275	0.1	2
Quartz vein	K269142	Specimen	0.27	0.006	0.52	173
Felsic dyke	K269149	Specimen	0.20	0.075	4.14	22

Hopkins South Zone

Rock Type	Sample No.	Sample Type	Cu (%)	Au (g/t)	Ag (g/t)	Mo (ppm)
Skarn	L865572	Chip (1 m)	0.14	0.847	1.13	2
Skarn	L865574	Chip (0.7 m)	0.38	0.004	2.27	25
Skarn	L865575	Chip (10.4 m)	0.45	0.326	2.17	2
Skarn	L865576					
Skarn	L865577					
Skarn	L865578					
Skarn	L865579	Chip (3.4 m)	0.51	0.52	6.79	9
Skarn	L865580					
Skarn	L865581	Chip (4.2 m)	0.33	0.30	5.87	12
Skarn	L865582					
Skarn	L865583	Chip (1.9 m)	0.42	0.306	2.56	1
Feldspar porphyry dyke	L865585	Chip (1.7 m)	0.13	0.031	2.5	13
Skarn	L865590	Chip (8.1 m)	0.23	0.06	2.06	278
Skarn	L865591					
Skarn	L865592					
Skarn	L865593					
Skarn	L865594	Chip (4.5 m)	0.32	1.31	6.47	5
Skarn	L865595					
Calc-silicate	L865596	Chip (1 m)	0.36	0.179	4.92	16
Skarn	L865598	Chip (3 m)	0.18	6.83	2.83	12
Skarn	L865812	Chip (3 m)	0.96	0.7	5.51	1
Skarn	L865813	Chip (1.2 m)	0.65	0.2	5.46	7
Micaceous quartzite	L865817	Specimen	0.14	0.011	0.33	466
Skarn	K269145	Specimen	0.16	0.037	1.58	3

HOPKINS SOUTH DRILL AND TRENCH RESULTS

397 500 mE
398 000 mE
6 795 000 mN
6 794 500 mN

Drill hole Cu (%)
- > 0.5
- ≥ 0.2 < 0.5
- ≥ 0.1 < 0.2

Discovery Showing

DDH-HOP-11-06
DDH-HOP-11-04
DDH-HOP-11-03
DDH-HOP-11-02
DDH-HOP-11-01
DDH-HOP-11-05

DISCOVERY SHOWING

0 250 m

Drilling Assay Highlights

Hole	From (m)	To (m)	Interval* (m)	Copper (%)	Gold (g/t)	Silver (g/t)
TH-1	15.54	21.00	5.46	0.14	0.14	3.0
TH-1	115.82	119.18	3.35	0.30	0.30	2.3
TH-2	23.53	42.12	18.59	1.04	0.87	14.6
TH-4	54.89	65.32	10.43	1.25	0.65	9.7
TH-6	57.36	70.10	12.74	1.05	NR	NR
TH-7	91.84	97.72	5.88	0.17	0.15	3.7
TH-8	60.81	69.28	8.47	0.76	0.71	7.3
including	62.79	67.09	4.30	1.27	0.81	10.6
TH-9	53.34	66.96	13.62	0.42	0.30	4.1
including	64.07	65.01	0.94	3.06	0.56	20.2
TH-12	163.65	143.96	0.71	2.42	3.0	16.1
TH-12	169.62	170.08	0.46	1.38	1.8	0.8
TH-13	170.08	171.56	1.28	0.36	0.05	NR
TH-13	111.80	114.79	2.99	0.20	0.19	3.4
PH-1	21.3	39.6	18.3	1.53	NA	NA
PH-2	42.7	45.7	3.0	0.33	NA	NA
PH-17	33.5	48.8	15.3	0.61	NA	NA
PH-18	48.8	70.1	21.3	0.73	NA	NA
PH-24	45.7	51.8	6.1	0.60	NA	NA
PH-25	51.8	54.8	3.0	0.29	NA	NA
PH-27	39.6	45.7	6.1	0.21	NA	NA
PH-31	27.4	30.5	3.1	0.10	NA	NA
PH-32	39.6	48.8	9.2	0.61	NA	NA
PH-34	42.7	48.8	6.1	0.20	NA	NA
PH-36a	42.7	45.7	3.0	1.49	NA	NA
PH-38	36.6	57.9	21.3	0.66	NA	NA
PH-39	45.7	54.9	9.2	1.44	NA	NA
PH-40	57.9	64.0	6.1	0.84	NA	NA
HA-1	52.38	53.69	1.31	2.70	0.36	35.7
HA-1	59.61	60.71	1.10	3.72	0.50	18.7
HA-1	101.24	104.18	2.94	0.43	0.32	4.4
HA-2	25.09	30.88	7.79	1.98	0.67	14.4
HA-3	14.63	17.51	2.88	0.56	0.20	7.0
HA-4	19.20	20.61	2.29	1.29	0.33	10.5
HA-4	24.95	29.96	5.01	0.67	0.33	13.6
HA-5	27.97	29.08	2.11	0.54	0.23	4.7
DDH-11-01	2.93	16.63	13.70	0.41	0.25	3.84
including	9.69	12.02	2.33	1.24	0.87	12.55
	125.67	147.60	16.93	0.22	0.76	1.75
including	125.67	133.17	7.50	0.43	3.35	3.55
including	125.67	127.67	2.00	0.01	9.60	1.64
DDH-11-02	28.01	30.45	2.44	0.52	0.72	4.15
	36.58	39.25	2.67	1.16	0.56	11.62
DDH-11-03	58.78	66.78	8.50	1.62	0.54	9.30
	88.28	90.70	2.42	1.87	0.66	17.74
	130.00	132.45	2.45	0.72	0.18	6.79
DDH-11-04	57.39	67.53	5.15	0.95	0.84	5.64
	174.86	182.87	8.01	1.58	0.84	14.82
DDH-11-05	126.93	128.05	1.12	0.46	1.83	1.74
DDH-11-06	131.80	136.80	5.00	0.50	0.29	2.35
	276.35	278.01	1.66	0.63	0.40	5.21
	279.10	282.93	3.59	0.73	0.59	14.97

NR: Not Reported
NA: Not Analyzed

STRATEGIC METALS LTD.

FIGURE 8
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
MINERALIZATION
HOPPER PROPERTY

0 500m
UTM ZONE 8, NAD 83, 105F/06. Contour line intervals 20 m

FILE: ...2014/HOPPER | DATE: MAY 2015

396,000 mE
397,000 mE
398,000 mE
399,000 mE
400,000 mE
6,798,000 mN
6,797,000 mN
6,796,000 mN
6,795,000 mN
6,794,000 mN
M898289
M898288
M898287
M898279
M898286
M898285
M898281
M898282
M898280
M898283
M898284
M898294-M898299, M896201-M896209 (TR-14-11)
M898293
M898227
M898222
M898224
M898223
M898225
M898228
M898291
M898278
M898226
M898290
M896210
M898229-M898232 (TR-14-07)
M898233-M898235 (TR-14-08)
M898236-M898264 (TR-14-09)
M898265-M898277 (TR-14-10)
M898221
M898208-M898212 (TR-14-01)
M898201-M898207 (TR-14-02)
M898220
M898213-M898219 (TR-14-03)
M898239-M898244 (TR-14-04)
M898245-M898248 (TR-14-05)
M898249-M898259 (TR-14-06)
M898292

T.N.
1°32'
21° 04' E
Grid north
Magnetic north
Annual change
decreasing 21.7'

STRATEGIC METALS LTD.

FIGURE 9
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ROCK SAMPLE LOCATIONS

HOPPER PROPERTY

0 500 m
UTM ZONE 8, NAD 83, 115H/07, Contour interval 10 m

FILE: 2014/Hopper
DATE: MAY 2015

T.N.

1°32'

21° 04' E

Grid north

Magnetic north

Annual change decreasing 21.7'

397,000 mE

398,000 mE

6,798,000 mN

6,797,000 mN

6,796,000 mN

6,795,000 mN

ZZ68578 ZZ68579 ZZ68586 ZZ68587 ZZ68604 ZZ68605 ZZ68632 ZZ68633
ZZ68577 ZZ68580 ZZ68585 ZZ68588 ZZ68603 ZZ68606 ZZ68631 ZZ68634
ZZ68576 ZZ68581 ZZ68584 ZZ68589 ZZ68602 ZZ68607 ZZ68630 ZZ68635
ZZ68575 ZZ68582 ZZ68583 ZZ68590 ZZ68601 ZZ68608 ZZ68629 ZZ68636
ZZ68600 ZZ68609 ZZ68628 ZZ68637
ZZ68599 ZZ68610 ZZ68627 ZZ68638
ZZ68598 ZZ68611 ZZ68626 ZZ68639
ZZ68597 ZZ68612 ZZ68625 ZZ68640
ZZ68596 ZZ68613 ZZ68624 ZZ68641
ZZ68595 ZZ68614 ZZ68623 ZZ68642
ZZ68594 ZZ68615 ZZ68622 ZZ68643
ZZ68593 ZZ68616 ZZ68621 ZZ68644
ZZ68592 ZZ68617 ZZ68620 ZZ68645
ZZ68591 ZZ68618 ZZ68619 ZZ68646
DD019179
DD019178
DD019177
DD019176
DD019175
DD019174
DD019173
DD019172
DD019171
DD019170
DD001983 DD019180 DD019169
DD001982 DD019181 DD019168
DD001981 DD019182 DD019167
DD001984 DD019183 DD019166
DD019050 DD019184 DD019165
DD019049 DD019185 DD019164
DD019048 DD019186 DD019163
DD019047 DD019187 DD019162
DD019046 DD019188 DD019161
ZZ43099 DD019189 DD019160
ZZ43098 DD019190 DD019159
ZZ43097 DD019191 DD019158
ZZ43096 DD019192 DD019157
DD019399 DD019193 DD019156
DD019398 DD019194 DD019155
DD019397 DD019195 DD019154
DD019396 DD019196 DD019153
DD019200 DD019197 DD019152
DD019199 DD019198 DD019151
ZZ68552
ZZ68553 ZZ68551
ZZ68554 ZZ68550
ZZ68555 ZZ68549
ZZ68556 ZZ68548
ZZ68557 ZZ68547
ZZ68558 ZZ68546
ZZ68559
ZZ68560
ZZ68561 ZZ68545
ZZ68562 ZZ68544 ZZ68529
ZZ68563 ZZ68543 ZZ68530
ZZ68564 ZZ68542 ZZ68531
ZZ68565 ZZ68541 ZZ68532
ZZ68566 ZZ68540 ZZ68533
ZZ68567 ZZ68539 ZZ68534
ZZ68568 ZZ68538 ZZ68535
ZZ68569 ZZ68537 ZZ68536
ZZ68528
ZZ68527
ZZ68526
ZZ68525
ZZ68524 ZZ68501
ZZ68502
ZZ68523 ZZ68503
ZZ68522 ZZ68504
ZZ68521 ZZ68505
ZZ68520 ZZ68506
ZZ68519 ZZ68507
ZZ68518 ZZ68508
ZZ68517 ZZ68509
ZZ68516 ZZ68510
ZZ68515 ZZ68511
ZZ68514 ZZ68512
ZZ68513
DD019089
DD019088 DD019090
DD019087 DD019091
DD019086 DD019092
DD019085 DD019093
DD019084 DD019094
DD019083 DD019095
DD019082 DD019096
DD019081 DD019097
DD019080 DD019098
DD019079 DD019099
DD019078 DD019100
DD019077 DD019101
DD019076 DD019102
DD019075 DD019103
DD019074 DD019104
DD019073 DD019105
DD019072 DD019106
DD019071 DD019107
DD019070 DD019108
DD019063 DD019109
DD019064 DD019110
DD019065 DD019111
DD019066 DD019112
DD019067 DD019113
DD019068 DD019114
DD019062 DD019115
DD019061 DD019116
DD019060 DD019117
DD019059 DD019118
DD019058 DD019119
DD019057 DD019120
DD019056 DD019121
DD019055 DD019122
DD019054 DD019123
DD019053 DD019124
DD019052 DD019125
DD019051 DD019126
DD019127

STRATEGIC METALS LTD.

FIGURE 10

ARCHER, CATHRO & ASSOCIATES (1981) LTD.

SOIL SAMPLE LOCATIONS

HOPPER PROPERTY

0 500 m

UTM ZONE 8, NAD 83, 115H/07, Contour interval 10 m

FILE: ...2014/HOPPER/F-9-SampleLocs | DATE: MARCH 2015

395,000 mE
396,000 mE
397,000 mE
398,000 mE
399,000 mE
400,000 mE

6,799,000 mN
6,798,000 mN
6,797,000 mN
6,796,000 mN
6,795,000 mN
6,794,000 mN
6,793,000 mN
6,792,000 mN
6,791,000 mN

TR-14-11
TR-14-08
TR-14-07
TR-14-10
TR-14-09
TR-14-01
TR-14-02
TR-14-03
TR-14-04
TR-14-05
TR-14-06

5,300
5,200
4,800
4,400
4,500
1400
1430
1280
1000

Soil Cu (ppm)
- ≥500 ≤26,100
- 200 <500
- ≥100 <200
- ≥50 <100
- ≥20 <50
- ≥0 <20

2011 Diamond Drill Hole

2011 Percussion Drill Hole

2014 Hand trench
(see report for details)

Hopper Pluton

Aishihik Lake Road

Hopper Main Road

Trail

T.N.
1°32'
21° 04' E
Grid north
Magnetic north
Annual change
decreasing 21.7'

STRATEGIC METALS LTD.

FIGURE 11
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

COPPER GEOCHEMISTRY

HOPPER PROPERTY

0 1 km

UTM ZONE 8, NAD 83, 115H/07, Contour interval 10 m

FILE: 2014/Hopper | DATE: MAY 2015

395,000 mE
396,000 mE
397,000 mE
398,000 mE
399,000 mE
400,000 mE
6,799,000 mN
6,798,000 mN
6,797,000 mN
6,796,000 mN
6,795,000 mN
6,794,000 mN
6,793,000 mN
6,792,000 mN
6,791,000 mN

TR-14-11
TR-14-08
TR-14-07
TR-14-09
TR-14-10
TR-14-01
TR-14-02
TR-14-03
TR-14-04
TR-14-05
TR-14-06

Soil Au (ppm)
≥0.1 <1.84
≥0.05 <0.1
≥0.02 <0.05
≥0.01 <0.02
≥0.005 <0.01
≥0 <0.005

2011 Diamond Drill Hole
2011 Percussion Drill Hole
2014 Hand trench
(see report for details)
Hopper Pluton
Aishihik Lake Road
Hopper Main Road
Trail

T.N.
1°32'
21° 04' E
Grid north
Magnetic north
Annual change
decreasing 21.7'

STRATEGIC METALS LTD.

FIGURE 12
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD GEOCHEMISTRY

HOPPER PROPERTY

0 1 km
UTM ZONE 8, NAD 83, 115H/07, Contour interval 10 m

FILE: 2014/Hopper
DATE: MAY 2015

395,000 mE
396,000 mE
397,000 mE
398,000 mE
399,000 mE
400,000 mE
6,799,000 mN
6,798,000 mN
6,797,000 mN
6,796,000 mN
6,795,000 mN
6,794,000 mN
6,793,000 mN
6,792,000 mN
6,791,000 mN

TR-14-11
TR-14-08
TR-14-07
TR-14-09
TR-14-10
TR-14-02
TR-14-01
TR-14-04
TR-14-03
TR-14-05
TR-14-06

Soil Ag (ppm)
- ≥2 <5.5
- ≥1 <2
- ≥0.5 <1
- ≥0.2 <0.5
- ≥0.1 <0.2
- ≥0 <0.1

2011 Diamond Drill Hole

2011 Percussion Drill Hole

2014 Hand trench
(see report for details)

Hopper Pluton

Aishihik Lake Road

Hopper Main Road

Trail

T.N.
1°32'
21° 04' E
Grid north
Magnetic north
Annual change
decreasing 21.7'

STRATEGIC METALS LTD.

FIGURE 13
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SILVER GEOCHEMISTRY

HOPPER PROPERTY

0 1 km
UTM ZONE 8, NAD 83, 115H/07, Contour interval 10 m

FILE: 2014/Hopper
DATE: MAY 2015

395,000 mE
396,000 mE
397,000 mE
398,000 mE
399,000 mE
400,000 mE

6,799,000 mN
6,798,000 mN
6,797,000 mN
6,796,000 mN
6,795,000 mN
6,794,000 mN
6,793,000 mN
6,792,000 mN
6,791,000 mN

TR-14-11
TR-14-07
TR-14-08
TR-14-09
TR-14-10
TR-14-02
TR-14-04
TR-14-06
TR-14-01
TR-14-03
TR-14-05

Soil Mo (ppm)
- ≥50 <172
- ≥20 <50
- ≥10 <20
- ≥5 <10
- ≥2 <5
- ≥0 <2

2011 Diamond Drill Hole

2011 Percussion Drill Hole

2014 Hand trench
(see report for details)

Hopper Pluton

Aishihik Lake Road

Hopper Main Road

Trail

T.N.
1°32'
21° 04' E
Grid north
Magnetic north
Annual change
decreasing 21.7'

STRATEGIC METALS LTD.

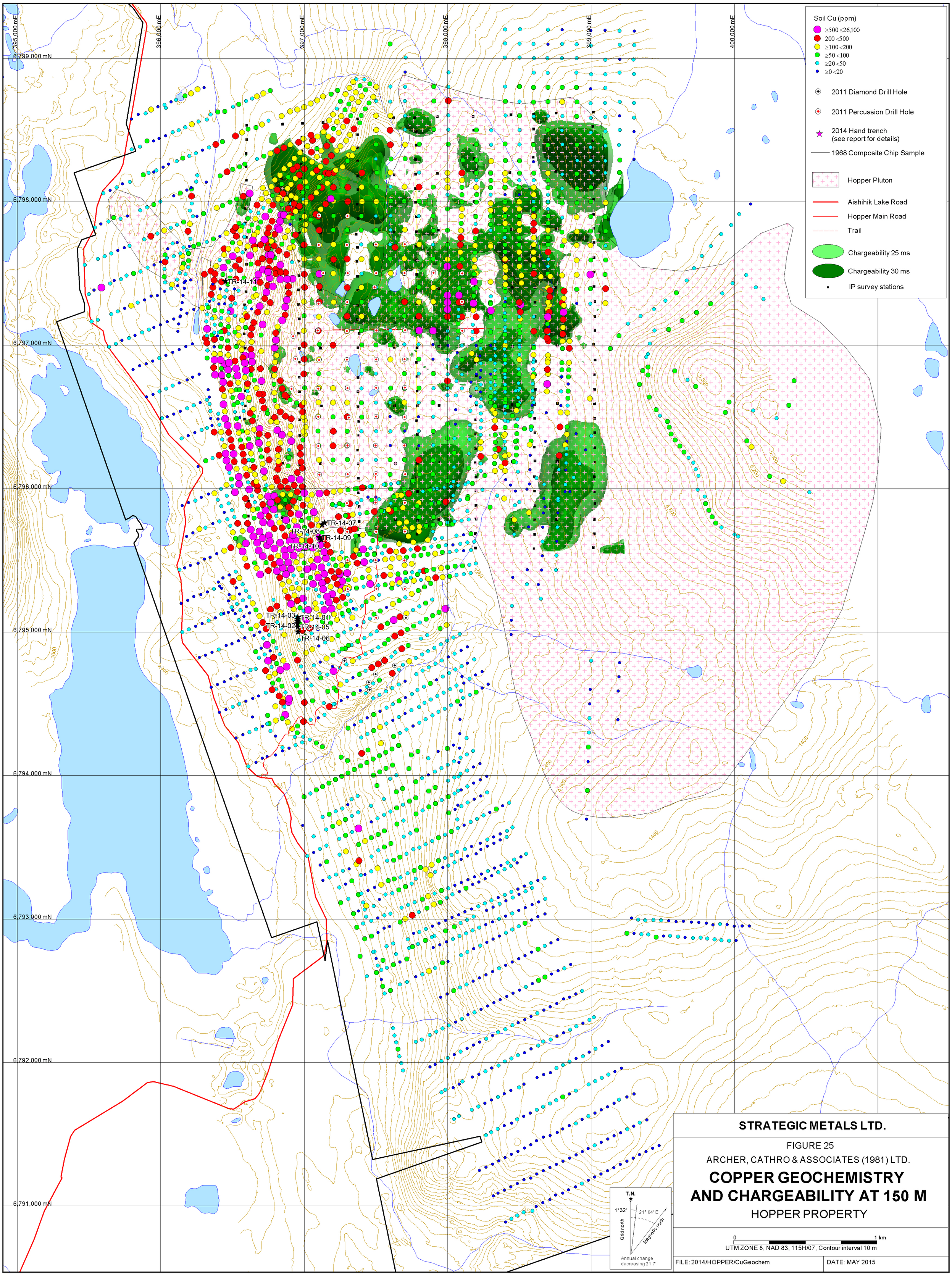
FIGURE 14
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

MOLYBDENUM GEOCHEMISTRY

HOPPER PROPERTY

0 1 km
UTM ZONE 8, NAD 83, 115H/07, Contour interval 10 m

FILE: 2014/Hopper
DATE: MAY 2015



STRATEGIC METALS LTD.

FIGURE 25

ARCHER, CATHRO & ASSOCIATES (1981) LTD.

COPPER GEOCHEMISTRY AND CHARGEABILITY AT 150 M

HOPPER PROPERTY

0 1 km

UTM ZONE 8, NAD 83, 115H/07, Contour interval 10 m

FILE: 2014/HOPPER/CuGeochem | DATE: MAY 2015

395,000 mE
396,000 mE
397,000 mE
398,000 mE
399,000 mE
400,000 mE
6,799,000 mN
6,798,000 mN
6,797,000 mN
6,796,000 mN
6,795,000 mN
6,794,000 mN
6,793,000 mN
6,792,000 mN
6,791,000 mN

Soil Cu (ppm)
≥500 ≤26,100
200 <500
≥100 <200
≥50 <100
≥20 <50
≥0 <20

2011 Diamond Drill Hole
2011 Percussion Drill Hole
Bulldozer/tractor trench
1968 Composite Chip Sample
Hopper Pluton
Aishihik Lake Road
Hopper Main Road
Trail
Chargeability 25 ms
Chargeability 30 ms
Interpreted resistivity 500 Ohm-m
IP survey stations

T.N.
1°32'
21° 04' E
Grid north
Magnetic north
Annual change decreasing 21.7'

STRATEGIC METALS LTD.

FIGURE 26

ARCHER, CATHRO & ASSOCIATES (1981) LTD.

COPPER GEOCHEMISTRY, CHARGEABILITY AND RESISTIVITY

HOPPER PROPERTY

0 1 km

UTM ZONE 8, NAD 83, 115H/07, Contour interval 100 feet

FILE: 2014/HOPPER

DATE: MAY 2015