GEOCHEMICAL ASSESSMENT REPORT
(2015 Soil Sampling Program)

on the

GIANT COPPER PROPERTY

Tenure Nos. 236533, 236534, 236535, 236590, 236591, 236592, 236593, 236594, 236595, 236736, 236737, 236738, 236784, 236785, 236786 & 236787

New Westminster Mining Division

NTS: 092H03E

BCGS: 092H015, 092H016 & 092H025

Latitude: 49° 10.2′ N; Longitude: 121° 00.3′ W

UTM (NAD 83 – Zone 10): 5 448 300 N; 645 400 E

Owner / Operator:

Imperial Metals Corporation
200-580 Hornby Street, Vancouver, BC V6C 3B6

Author: Jim Miller-Tait, P.Geo.

May 5, 2016

BRITISH COLUMBIA
The Best Place on Earth

Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: GEOCHEMICAL ASSESSMENT REPORT **TOTAL COST:** $22,330.49

AUTHOR(S): Jim Miller-Tait **SIGNATURE(S):**

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): N/A **YEAR OF WORK:** 2015

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5590158 / February 11, 2016

PROPERTY NAME: GIANT COPPER

CLAIM NAME(S) (on which the work was done): 236533, 236534, 236535, 236590, 236591, 236592, 236593, 236594, 236595, 236736, 236737, 236738, 236784, 236785, 236786 and 236787

COMMODITIES SOUGHT: Cu,

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092HSW001, 092HSW002, 092HSW027, 092HSW161

MINING DIVISION: New Westminster **NTS/BCGS:** 092H03E / 092H015

LATITUDE: 49 ° 10 ' 13 " **LONGITUDE:** 121 ° 00 ' 19 " **(at centre of work)**

OWNER(S):
1) Imperial Metals Corporation 2)

MAILING ADDRESS:
200-580 Hornby Street
Vancouver, BC V6C 3B6

OPERATOR(S) [who paid for the work]:
1) Imperial Metals Corporation 2)

MAILING ADDRESS:
200-580 Hornby Street
Vancouver, BC V6C 3B6

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
The Giant Copper property is mostly underlain by finely laminated waterlain tuffs and lesser volcanic siltstone/sandstone sequences of the Ladner Creek Group. The Hozameen Fault transects the property and all stratigraphy west of the fault belongs to the Hozameen Group. Flanking the Ladner Group, along the eastern side of the property is the fine-grained sediments of the Dewdney Creek Group and younger marine sediments. Seven mineralized breccia pipes have been identified at Giant Copper.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 00259, 04074, 04075, 07823, 18340, 19045, 19878, 23902, 24157, 24986

Next Page

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil	240 samples / 36 element ICP-ES/MS	see Claim Names on 1st page	$14,373.71
Silt			
Rock	3 samples / 36 element ICP-ES/MS	see Claim Names on 1st page	$179.67
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying	243 samples / 36 element ICP-ES/MS	see Claim Names on 1st page	$4,646.31
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other	Report prepartion and program administration	see Claim Names on 1st page	$3,100.80
		TOTAL COST:	$22,330.49

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SECTION A: REPORT

INTRODUCTION

The Giant Copper property is located in southern British Columbia 37 km southeast of Hope and 150 km east of Vancouver within the New Westminster Mining Division. The Property is 100% owned by Imperial Metals Corporation ("the Company") and is subject to an underlying royalty to Campbell Resources Ltd. The Property consists of 163 legacy mineral claims and 8 Crown granted claims covering 4,989.2 hectares.

The Giant Copper claims were first staked in the 1930's and since that time seven mineralized hydrothermal breccia pipes have been discovered and explored. Precious metal enriched porphyry copper mineralization occurs predominantly within tourmaline breccia pipes with related high-grade base and precious metal veins, both related to the central hydrothermal system driven by a multiphase porphyritic intrusive.

The AM zone is the most explored area of the property and drilling has defined a near-vertical, relatively high grade Cu(Au-Ag) breccia pipe. This zone hosts the bulk of the resources identified to date on the property and remains open below 450 m depth. The high grades present (typically >1.5% Cu) in the North Nose zone at the north end of the of the AM pipe demonstrate the high-grade potential of the system at depth. Analogy with the Los Bronces-Rio Blanco district in Chile, suggest higher grade bornite-rich biotite breccias could be present at greater depth below the levels of present drilling.

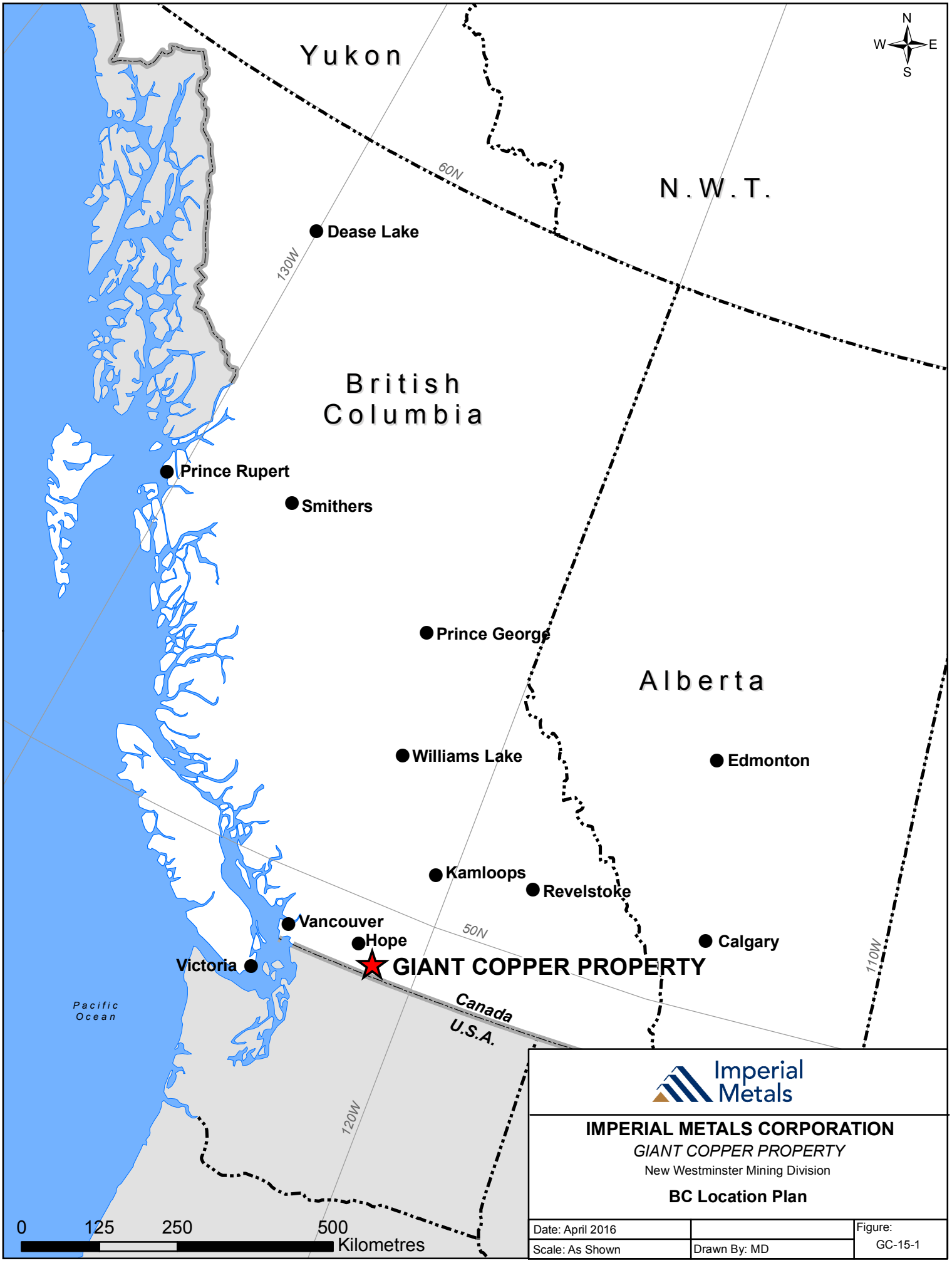
The exploration potential of the property remains considerable in addition to the AM zone, with several of the mineralized satellite breccias remaining open for expansion as well as the potential for the discovery of new mineralized breccia pipes. A review of the Giant Copper property completed by Riedell (2010) reported that the potential remains for the discovery of one or more high-grade breccias (~50 Mt at 1.5-2% Cu) as well as a hypogene porphyry Cu-Mo body of 250-500 Mt of 0.75-1.0% Cu.

A geochemical survey was completed on the property in July, 2015 targeting a relatively underexplored portion of the claims east of the No.1 breccia zone and on both sides of the northeast-trending Giant Fault. The area surveyed lies outside of the extensive geochemical and geophysical survey grids completed prior to 1990. A northeast trending zone (200 m x 350 m) of weak Cu-Au in soil anomalism (50 – 186 ppm Cu & up to 525 ppb Au) was identified immediately south of the Giant fault and the 15 Level adit. This Cu-Au anomalism is interpreted to be in a similar geological setting to the No.1 breccia, located adjacent to the Giant Fault and on the margin of the Invermay quartz diorite stock. This area warrants additional follow up as it may represent a new buried mineralized pipe, which prior to the interpreted displacement along the Giant Fault, would have formed 600 m from the AM breccia pipe and centre of the Giant Copper system.

PROPERTY:

The Property is 100% owned and operated by Imperial Metals Corporation and is subject to an underlying NSR royalty to Campbell Resources Inc. This royalty equates to a 1.25% NSR upon return of capital expenditures or 4 years from commencement of commercial production, whichever occurs first. Once total NSR payments equal 10% of the capital expenditures required to bring the property to commercial production, the royalty then converts to a 10% NPI.

The Property is located in southern British Columbia 37 km southeast of Hope, 150 km east of Vancouver and 20 km north of the USA border within the New Westminster Mining Division (Figure GC-15-1). The claims lie within a designated mineral reserve and are surrounded by EC Manning Provincial Park on the north, south and east side and Skagit Valley Park on the west (Figure GC-15-2). A buffer zone of



Imperial Metals

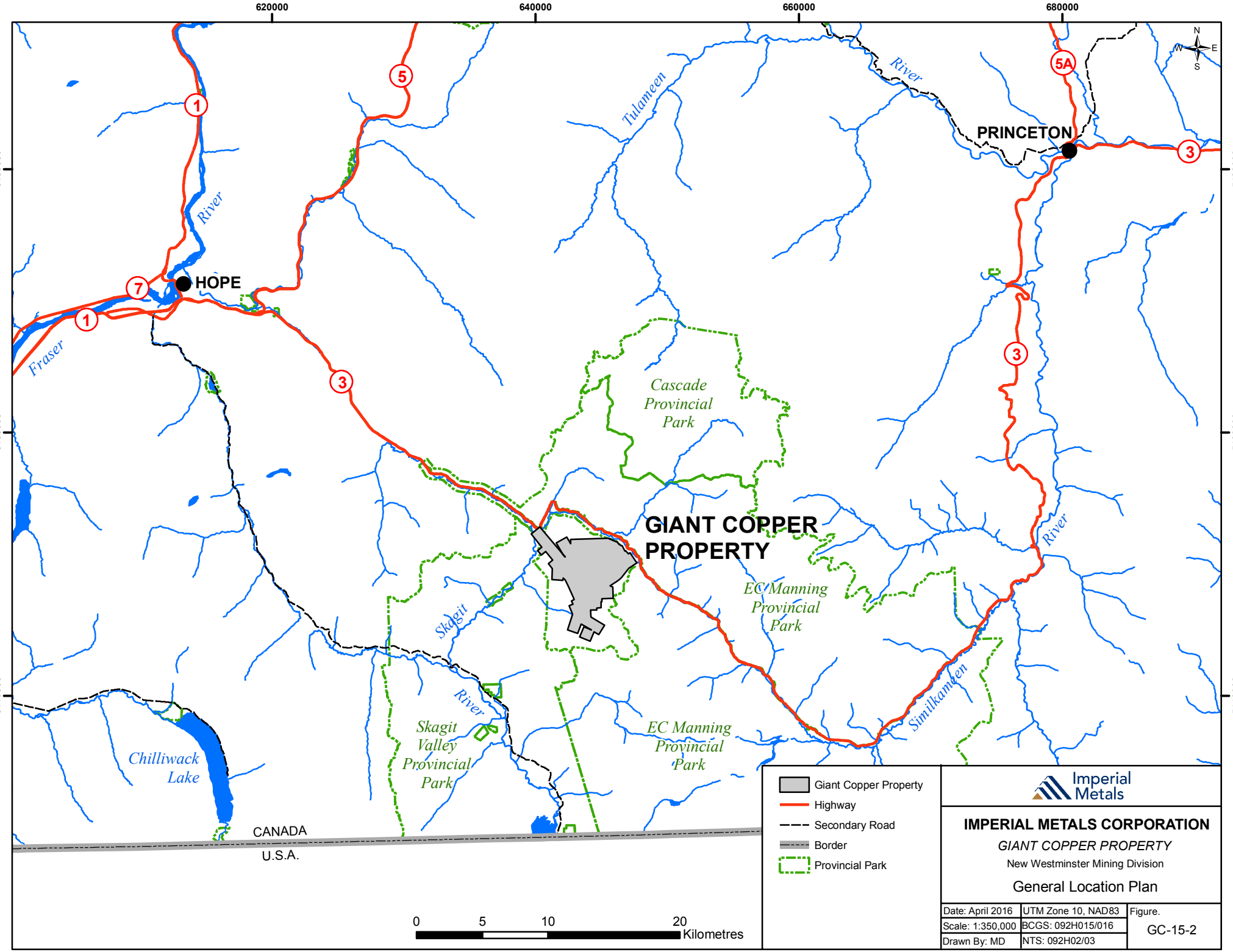
IMPERIAL METALS CORPORATION

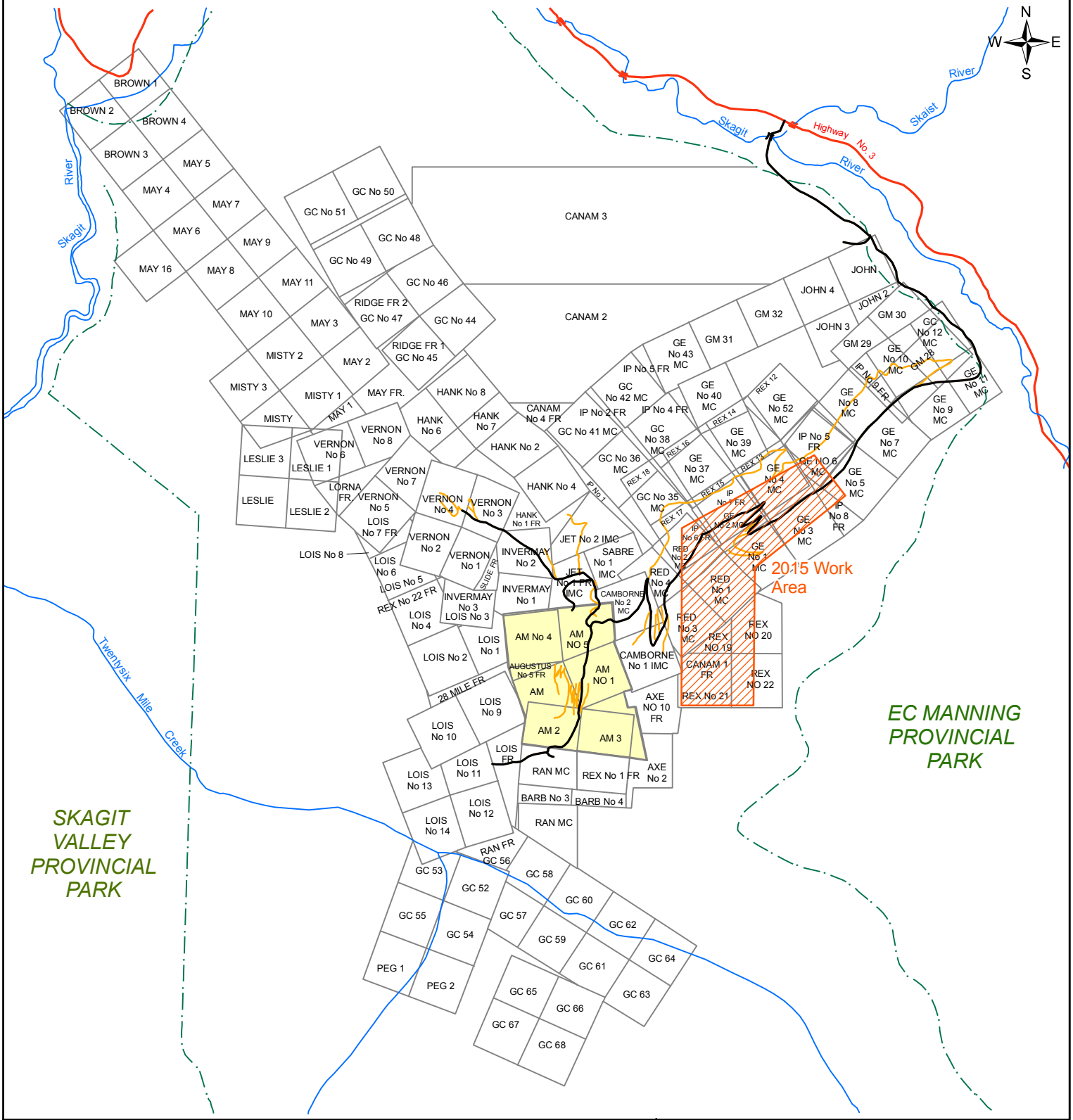
GIANT COPPER PROPERTY

New Westminster Mining Division

BC Location Plan

Date: April 2016		Figure: GC-15-1
Scale: As Shown	Drawn By: MD	


620000
640000
660000
680000
5480000
5460000
5440000
HOPE
PRINCETON
Fraser River
Tulameen River
Similkameen River
Skagit River
Cascade Provincial Park
EC Manning Provincial Park
Skagit Valley Provincial Park
Chilliwack Lake
GIANT COPPER PROPERTY
CANADA
U.S.A.
0 5 10 20 Kilometres
Giant Copper Property
Highway
Secondary Road
Border
Provincial Park
Imperial Metals
IMPERIAL METALS CORPORATION
GIANT COPPER PROPERTY
New Westminster Mining Division
General Location Plan
Date: April 2016
Scale: 1:350,000
Drawn By: MD
UTM Zone 10, NAD83
BCGS: 092H015/016
NTS: 092H02/03
Figure.
GC-15-2



Main Roads
Park Boundary
Highway
Claim Boundary
Property Roads
Crown Grant Area
2015 Work Area

0 500 1,000 2,000 Meters

Imperial Metals

IMPERIAL METALS CORPORATION

GIANT COPPER PROPERTY

New Westminster Mining Division

Mineral Tenures Plan

Date: April 2016	Scale: 1:45,000	Figure: GC-15-3
Drawn By: MD	NTS: 92H02/03	

unclaimed land occurs between the property and the mineral reserve, with the right to register any additional claims within this zone limited to Imperial Metals. Access for the purpose of mining has been guaranteed by the government. The claim group consists of 163 legacy mineral tenures and 8 Crown granted claims, totaling 203 cells and covering a gross area of 4,989.2 ha (Figure GC-15-3).

The details of the mineral tenures that comprise the Property are set out in Section B of this report. The "good to dates" are based on the Statement of Exploration and Development Work registered on February 11, 2016 as Event #5590158 and assumes that the work contained in this report will be accepted for assessment purposes.

LOCATION AND ACCESS:

The Giant Copper property is located in southern British Columbia and is easily accessed by road from the Crowsnest Highway 3 approximately 200 km east of Vancouver and 43 km southeast of Hope. The turn-off at Cayuse Flats leads to a bridge, secured by a locked gate, across the Skagit River and from here a 6.5 km gravel access road leads to the 15 Level adit. This road continues for a further 3.5 km, with a series of switch backs, and provides access to most of the breccia zones on the property including the AM and Invermay zones.

The southern portion of the property, in the area of 26 Mile Creek, is most easily accessed by helicopter out of Hope, although a steep hiking trail does extend down into the valley south of the AM zone.

Underground portals developed during previous exploration on the property are now boarded up and a camp that had been established along the road access to the Invermay zone, between the Camp and Pass zones, has been partially dismantled and damaged by fire. Drill core from this most recent round of deep diamond drilling of the AM zone was being stored at lower elevation near the 15 Level adit, but regrettably vandals have destroyed this facility, preventing further review of this core.

The property can be located on NTS map sheet 092H03E and BCGS map sheets 092H015, 092H016 and 092H025. The geographic centre of the 2015 work area is 49° 10.2′ North latitude and 121° 00.3′ West longitude while the UTM coordinates are 645 400 E, 5 448 300 N (NAD 83, Zone 10).

CLIMATE, TOPOGRAPHY AND VEGETATION:

The Giant Copper claims lie within the Hozameen Range of the Cascade Mountains. They cover the rugged slopes and wooded flanks of Hatchethead and Silverdaisy Mountains. Smitheram Creek drains the eastern section of the property and flows northeast into the Skagit River, while Silverdaisy Creek and 26 Mile Creek drain the western and southern sections of the property and flow west into the Skagit River. Elevation on the property ranges from 620 m at the lower reaches of Silverdaisy Creek to 2,060 m at the summit of Silverdaisy Mountain.

Due to the large elevation variance on the property the climate ranges considerably. In the low river valleys the climate is that of temperate rainforest and the Coastal Western Hemlock biogeoclimatic zone. Higher elevations on the property have a montane and alpine climate and are defined as the Englemann Spruce-Subalpine Fir biogeoclimatic zone. Summers are comparatively dry, with far less precipitation than in winter and at higher elevations much of this falls as snow. The mean annual precipitation on the property at 1400 m is 1255 mm with average temperatures of +12°C in summer and -4.5°C in winter (UBC, 2015). The majority of the property, excluding the high peaks and ridgelines, is forested with subalpine fir and

spruce. Harvesting of this timber has been completed within recent years and further cut blocks are planned within the claims.

HISTORY:

The following detailed property history has been documented by S. Robertson in the 2006 NI43-101 Technical Report on the Giant Copper Property.

The Giant Copper property was originally comprised of two properties:

- The AM discovered in 1930 by the Consolidated Mining and Smelting Company (Cominco).
- The Invermay discovered in 1933 by the Invermay Annex Mining Company.

1933-1941 Four main adits and an aerial tramway were developed on the Invermay property. A total of 97 tons grading 103.1 oz/t Ag, 10.9% Pb, 11.8% Zn were hand cobbed from narrow shear veins and were shipped to Cominco's Trail smelter.

1948 The Invermay property which had reverted to the Crown was acquired for payment of taxes by the Invermay Annex Skagit River Development Company Ltd. They conducted a limited amount of diamond drilling, primarily to satisfy assessment requirements.

1949 On the AM group to the east of Invermay, Canam Mining Corporation Ltd. drove the No.6 adit into the North Nose zone. Simultaneously, the road from the main highway up to the main workings was upgraded.

1950 Canam Copper Company Ltd. (Canam) was formed.

1951-1952 Canam undertook drilling, drifting and cross-cutting on No.6 adit level.

1953 Canam collared the No.7 and 10 levels and advanced No.3 level a short distance.

1954 The AM group was optioned by the American Metals Company Ltd. who did some 760 m (2,500 feet) of surface drilling and drove No.10 level ahead for 35 m (120 feet) before dropping the option at year end.

1955 Mogul Mining of Toronto optioned the AM and over the next two years organized a major program on the property with the objective of putting it into production. They constructed a 100-man camp complex including a combination cookhouse and bunkhouse, and a separate bunkhouse at the 1,310 m (4,300 feet) elevation, and cleared the site for a concentrator. They also collared a main haulage adit, No. 15 level, and advanced it for 1,460 m (4,800 feet). In addition a limited amount of underground and surface diamond drilling was carried out.

1956 Canam acquired the adjoining Invermay group consolidating the neighboring properties.

1957 Copper prices fell and Mogul relinquished the Giant Copper property, then known as the Canam property. In the same year Cominco optioned the combined claim groups and in the following two years undertook drilling in the vicinity of the Invermay and AM workings. Most of their work was related to the Invermay breccia and the Camp and Pass breccias. Cominco dropped their option in 1959.

1961 Canam advanced the No.15 level an additional 700 m (2,300 feet) into the North Nose zone of the AM breccia. They also collared a shaft raise and extended it 43 m (141 feet).

1963 Canam rehabilitated the No.15 level and carried out diamond drilling below the level. They also did 360 m (1,185 feet) of surface drilling in the No.7 adit area.

1964 Giant Mascot Mines Limited entered into an option to earn a majority interest in the property. A ventilation raise was collared and driven 170 m (555 feet) up from 15 level toward 10 level, and 5,820 m (19,100 feet) of diamond drilling was completed.

1965 Giant Mascot continued their program and did some 380 m (1,250 feet) of surface drilling in five holes and 2,660 m (8,725 feet) of underground drilling in 53 holes.

1966 Giant Mascot purchased all the assets and liabilities of Canam. The property was renamed Giant Copper. Little property work was done in this year.

1967 No.10 level was rehabilitated and a crosscut was driven towards the south zone of the AM breccia. In addition, the ventilation raise started earlier from 15 to 10 level was completed for its total distance of 230 m (787 feet). The Company completed the 10 level drive to the south zone of the AM and crosscuts in it for a total distance of 348 m (1,140 feet). The ventilation raise from 10 to 7 level was completed for a total inclined distance of 222 m (728 feet). A 15 m (50 feet) sub raise was started from the No.10 level cross cut towards 7 level in the south zone, but was discontinued because of poor ground conditions. Additionally, some 1,327 m (4,352 feet) of underground drilling was done and geochemical and geophysical surveys were carried out on the surface.

1969 The 1,4,6,7 and 10 levels and the ventilation raise were mapped and chip sampled. The main road to the workings was improved and in certain areas relocated. Some 1,220 m (4,000 feet) of trenching was done by bulldozer. A new camp to house 22 men was installed just off the main highway.

1970 The 10 and 15 levels were rehabilitated and re-timbered where necessary in caved areas. The 15 level was extended south into the south mineralized zone and a raise was advanced 7 m (24 feet) towards 10 level. Sixty-three m (207 feet) of diamond drilling was undertaken below 15 level.

1971 The extension of the 15 level into the south zone was sampled.

1972 On the surface, the south end of the AM breccia received attention with some 1,860 m (6,100 feet) of bulldozer trenching. Thirteen km (8 miles) of new road construction consisting of a route to a lead-zinc geochemical anomaly on the southwest slope of the ridge and old road rehabilitation and repair were undertaken in the area of the 10 level portal to further delineate a geochemical, geophysical anomaly and 198 m (651 feet) of diamond drilling was done.

1974 All the camp and plant facilities were removed.

1979 Three surface drill holes totaling 292 m (958 feet) were drilled in the southern AM breccia zone and one surface hole for 245.6 m (805.5 feet) was put down on the Invermay breccia.

1980 Five diamond drill holes were drilled in the Invermay breccia and two were drilled in the Camp breccia. Level 10 adit was rehabilitated approximately 540 m along its length from the portal and several adits in the Invermay vein zone were reopened for sampling and geological mapping.

1988 Bethlehem Resources Corporation (now Imperial Metals Corporation) acquired the property from Campbell Resources Inc. (formerly Giant Mascot Mines). 6,908 m of old core was logged and sections re-sampled for precious metals. 800 soil samples were geochemically analyzed for Cu, Pb, Zn, Ag, Au and As. This survey delineated a new zone called the No.1. Ground geophysics, using magnetics, VLF-EM and

Induced Polarization was conducted over the geochemistry grid totaling approximately 21 km. Eleven surface drill holes and five underground drill holes totaling 1,204 m tested the AM breccia. Level 10 workings were rehabilitated by Tonto Mining Group.

1989 Feasibility work was conducted by several independent engineering groups. Traverse mapping of local Giant Copper geology was completed by John G. Payne. Four trenches totaling 189 m were excavated over the No.1 breccia with areas returning anomalous to ore grade copper values up to 1.4% copper. 15 rotary drill holes were drilled in the No.1 breccia and 9 were drilled into the southern portion of the AM breccia. Drilling totaled 1,049 m.

1990 Drilling was halted due to active avalanche conditions. 22 combined line km of helicopter borne Magnetic and VLF Survey by Aerodat Limited was conducted.

1995 Bethlehem Resources merges with Imperial Metals Corporation. Imperial drilled 8 diamond drill holes and channel sampled 41 trenches proving a continuation of the AM mineralized breccia to the southwest and providing infill drilling for the purposes of completing a resource estimate.

1996 Imperial completed a property wide airborne geophysical survey and 7 km of grid was established at the Invermay Zone which was soil sampled following magnetics, IP and VLF-EM surveys. 13 diamond drill holes totaling 2,457 m (8,062 feet) were drilled on the Invermay Zone. Results indicate the presence of a large low grade porphyry copper deposit in the Invermay area.

2006-2007 Imperial recommenced diamond drilling of the AM zone, with two holes into the southern portion of the AM pipe and two targeting the North Nose zone. A total of 1,872.2 m was completed in four holes. One deep hole (GCS06-02, 868 m) targeted the North Nose zone below the levels of previous drilling but failed to intersect significant intervals of hydrothermal breccia.

REGIONAL GEOLOGY:

The Giant Copper property is located on the eastern side of the northern reaches of the Cascade Mountains. This area was described in detail in the mid 1960's by Coates of the Geological Survey of Canada, with the work being published in 1973. A short synopsis in relation to the property is given here from Robertson (1997).

The area of the Giant Copper property is characterized by five major divisions of rocks as described by Coates, 1973. The north-northwest trending Hozameen Fault separates the Jurassic Ladner Group, from the older Hozameen Group, which has been thrust upward along the fault. In the area of Manning Park (east of the property), the Chuwanten strikeslip fault separates rocks of the Ladner, Dewdney Creek, and Jackass Mountain Groups, from younger Pasayten Group stratigraphy. In this region the rocks become progressively younger to the east.

The Hozameen Group represents the oldest part of the stratigraphic succession in the area being Permian to Middle Triassic age, and is comprised of low grade metamorphosed greenstone, chert, argillite and limestone. This package of rocks has been openly to isoclinally folded by compressive forces which thrust it into fault contact with the younger Ladner Creek Group.

The Early to Middle Jurassic Ladner Creek Group rocks are comprised of volcanic sandstone, tuff and argillite, with lesser lava and flow breccia. This gently folded sequence is usually well bedded and contains fossils, mostly shallow marine in origin.

A series of fine-grained, well sorted volcanic sandstones and sandy argillites of Upper Jurassic age, form the Dewdney Creek Group which overlies the Ladner Creek Group. This strongly faulted unit is thought not to exceed 300 m thick and contains many marine fossils.

The Jackass Mountain Group consists of coarse grained clastic sediments of both shallow marine and non-marine origin. These rocks are generally very immature, with many good examples of conglomerate in the region.

The youngest rocks in the region are the coarse, clastic, strictly non-marine sediments of the Pasayten Group. These Lower Cretaceous rocks are only slightly younger than the underlying Jackass Mountain Group sedimentary rocks.

Ultramafic dykes and sills are not uncommon in the region, and are often seen as late stage features within the sedimentary rocks. Cretaceous and Eocene intermediate plutonic rocks occur as stocks, plugs, dykes and sills cross-cutting all younger units.

Coates states that there is a strong possibility that the fault-bounded trough, where the thick sequences of sediments were deposited, is a southward extension of the Tyaughton Trough.

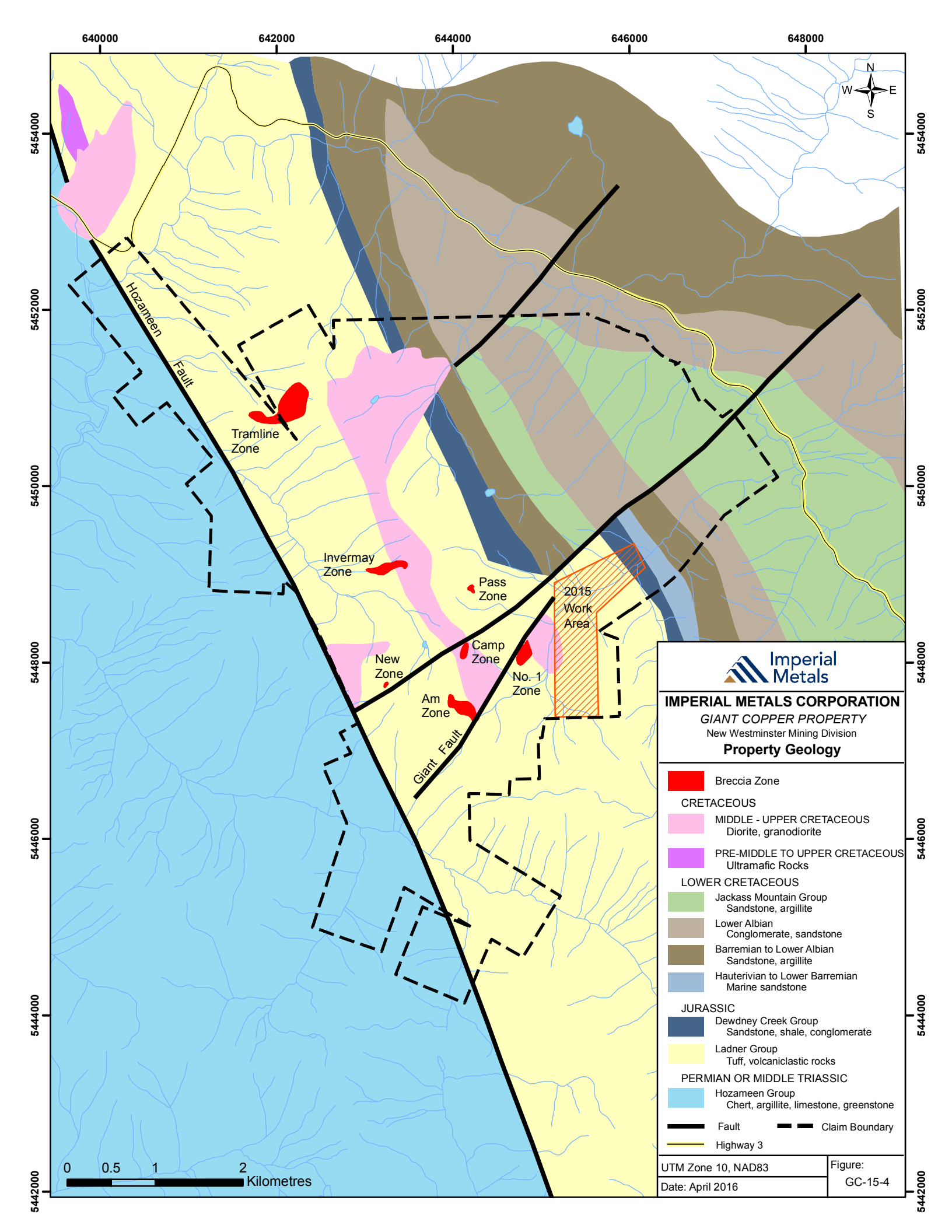
Regional deformation at the end of the Cretaceous and has resulted in regional greenschist facies metamorphism in many units. This timing is probably only slightly later than the emplacement of the oldest suite of intrusives present in the area.

PROPERTY GEOLOGY:

The Giant Copper property is mostly underlain by finely laminated waterlain tuffs and lesser volcanic siltstone/sandstone sequences of the Ladner Creek Group. The Hozameen Fault transects the property and all stratigraphy west of the fault belongs to the Hozameen Group. Flanking the Ladner Group, along the eastern side of the property is the fine-grained sediments of the Dewdney Creek Group and younger marine sediments (Figure GC-15-4).

The Ladner stratigraphy has been intruded by at least four different intrusive units on the Giant Copper property. The oldest of these intrusives is the middle to upper Cretaceous Invermay stock which postdates regional deformation. This quartz diorite stock occurs at the centre of the property and is elongate north-northwest with a surface exposure of approximately 4 km by 0.5 – 1.5 km. Smaller plugs of granodiorite, quartz diorite and diorite, related to the Invermay stock, intrude both the Hozameen and Ladner Groups. Northeast striking subsidiary faults appear to play an important role in the emplacement of the intrusive stocks and hornfelsing of the surrounding sediments is evident up to a hundred metres from the intrusive margins.

A cluster of seven tourmaline breccia bodies occur on the property within a northwest corridor 4.5 by 1.5 km and cut both Jurassic-Cretaceous clastic sedimentary rocks and the Cretaceous quartz dioritic Invermay stock. While minor porphyry style mineralization occurs within the quartz diorite intrusive, the majority of the mineralization identified occurs within the breccia bodies. These bodies range from 0.2 to 14 ha in surface area, averaging 3.8 ha, with typical dimensions of 250-450 m long by 100-150 m wide. The breccias contain angular to subrounded fragments of wall rocks rimmed by black tourmaline, in matrices of rock flour, quartz and sulphides. Differences in mineralization style occur between the breccia bodies on the property. The AM, Camp, New, Tramline and Pass breccia bodies are characterized by chalcopyrite, pyrite, and pyrrhotite mineralization with minor by product Ag, Au, and Mo. In contrast, the No. 1 and Invermay breccias contain Zn-Pb-Ag mineralization and lesser Cu. Chlorite-sericite-actinolite alteration is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5448000
5446000
5444000
5442000
N
W
E
S
Hozameen Fault
Tramline Zone
Invermay Zone
Pass Zone
2015 Work Area
Camp Zone
New Zone
No. 1 Zone
Am Zone
Giant Fault
0 0.5 1 2 Kilometres
Imperial Metals
IMPERIAL METALS CORPORATION
GIANT COPPER PROPERTY
New Westminster Mining Division
Property Geology
Breccia Zone
CRETACEOUS
MIDDLE - UPPER CRETACEOUS
Diorite, granodiorite
PRE-MIDDLE TO UPPER CRETACEOUS
Ultramafic Rocks
LOWER CRETACEOUS
Jackass Mountain Group
Sandstone, argillite
Lower Albian
Conglomerate, sandstone
Barremian to Lower Albian
Sandstone, argillite
Hauterivian to Lower Barremian
Marine sandstone
JURASSIC
Dewdney Creek Group
Sandstone, shale, conglomerate
Ladner Group
Tuff, volcaniclastic rocks
PERMIAN OR MIDDLE TRIASSIC
Hozameen Group
Chert, argillite, limestone, greenstone
Fault
Claim Boundary
Highway 3
UTM Zone 10, NAD83
Date: April 2016
Figure:
GC-15-4

associated with the mineralized breccias and erratic lenses of Pb-Zn-Ag veining occur along northeast tending structures within several of the breccias.

Non-porphyritic aplite dikes are found in three of the main mineralized breccias on the property. Aplite dikes emplaced within the AM zone appear unrelated to the bulk of the breccia mineralization, while at the Invermay zone, disseminated mineralization is spatially related to the aplite dikes and also strongly associated with the resultant potassic alteration. The dikes are believed to be high level apophisies of a large multiphase, felsic body emplaced at depth.

MINERALIZED ZONES

Seven mineralized breccia pipes have been identified at Giant Copper, most of them in the alpine section of the property where exposure is best (Figure GC-15-5). All mineralization is believed to be related to the emplacement of a porphyritic Cretaceous intrusive suite. The major characteristics of the breccia zones are described as follows.

AM Breccia

The AM breccia is by far the best explored on the property and is an elongate, northwesterly trending, series of sub-vertical breccia pipes bounded by steep faults. It measures 430 by 150 m at surface and has been mined and explored to the 15-level, ~450 m below surface, where it remains in strong Cu-(Ag-Au) mineralization. The breccia body consists of large, angular fragments of volcaniclastic rocks in a matrix of feldspar, mafic minerals, quartz and sulphides. Breccia fragments are hornfelsed and variably rimmed and replaced by black, microcrystalline, tourmaline. Pyrite and pyrrhotite are ubiquitous within the breccia and into the surrounding hornfelsed sediments. Strong chalcopyrite mineralization is associated with the strongest alteration in the breccia matrix. Arsenopyrite is associated with zones of intense tourmaline and quartz replacement. Molybdenum content is variable within the breccia. Ag values are consistently elevated throughout the mineralized zone but Au values are variable. The highest Au values are associated with arsenopyrite and chalcopyrite.

The highest grades (commonly >1.5% Cu) are concentrated in the 45-60 m wide North Nose zone along the northern margin of the AM pipe. One deep diamond hole (868 m) has been drilled beneath the North Nose zone but this missed its target and failed to intersect significant hydrothermal breccia. The amount of drilled breccia increases with depth either due to flaring of the pipe or (more likely) other blind breccia pipes in the vicinity (Riedell, 2010).

Invermay Breccia

The Invermay breccia is hosted within the Invermay stock and adjacent altered sedimentary rocks. East-northeasterly trending faults pass through the centre of the Invermay breccia and host a series of quartz-sulphide veins. These veins host pods of massive sphalerite and galena mineralization with minor chalcopyrite in a gangue of quartz and calcite. High silver and low gold values are associated with the strongest sulphide mineralization. These high-grade Pb-Zn-Ag veins were originally mined in the 1930's and 40's. The potential for bulk mineable disseminated mineralization in the surrounding diorite breccia was recognized several decades later.

Surrounding the Invermay veins is a zone of low-grade porphyry copper gold mineralization in the strongly fractured Invermay plutonic rocks and enclosing sediments. A core of tourmaline-magnetite replacement is surrounded by a halo of chlorite, sericite, tourmaline alteration. The breccia is comprised of rounded to angular fragments of diorite with a very fine grained intrusive groundmass, moderately to very strongly altered. The breccia has been invaded by aplite dykes which appear to be related to the hydrothermal activity. The alteration is dominated by k-feldspar and quartz flooding, especially in areas of close proximity to the aplite dykes. The potassic alteration (quartz-k-feldspar-biotite-rare tourmaline-magnetite)

is overprinted by the later and more widespread phyllic (quartz-sericite-carbonate-rutile) and propylitic (chlorite-sericite-carbonate-epidote) alteration. The intensity of potassic alteration and strength of sulphide mineralization both appear to be dependent on the spatial relationship with the aplite dikes.

No.1 Breccia

The No.1 breccia was discovered in 1989 as an area of anomalous copper, lead, zinc and gold in soils which overlies a zone of high chargeability. There is no outcrop in the vicinity of the anomaly, although shallow trenches uncovered weakly mineralized breccia and altered sedimentary rocks. The No.1 breccia is comprised of strongly altered and hornfelsed, sedimentary rocks in contact with a quartz diorite. The sedimentary rocks are brecciated with polylithic fragments in a felsitic matrix composed of orthoclase, brown carbonate, chlorite and clay. Fragments vary in size from 1 mm to greater than 3 cm. Alteration minerals include tourmaline, sericite, chlorite and clay.

Pyrite, arsenopyrite and minor chalcopyrite are hosted in the breccia and altered rocks. Moderate to strong sphalerite, galena were encountered in a few of the drill holes. Gold and silver values are elevated with the highest silver values associated with strong Pb-Zn mineralization. The most significant drill intercept to date encountered 20 feet (6.1 m) @ 1.46% Cu, 10.71% Pb, 4.84% Zn, 0.024 oz/t Au and 25.1 oz/t Ag. Payne (1989) has postulated that the No.1 breccia is a faulted offset of the AM breccia, displaced by the Giant Fault. Geochemical signature and mineralization styles are however quite dissimilar. Exploration in the No.1 area includes soil geochemical, VLF-EM, magnetometer and IP surveys, two diamond drill holes totaling 159 m and 16 reverse circulation drill holes totaling 985 m.

Camp Breccia

The Camp breccia is a hornfelsed area of fracturing within the Invermay stock and adjacent sedimentary rocks. The breccia is altered by sericite, chlorite, tourmaline replacement with limonite staining and hosts disseminated and fracture controlled pyrite, pyrrhotite, minor chalcopyrite and trace molybdenite. Exploration at the Camp zone includes soil geochemistry, magnetometer, VLF-EM, and IP surveys, and 7 diamond drill holes totaling 453 m.

Pass Breccia

The Pass breccia is an area of fractured and weakly brecciated sedimentary rocks which are in contact with and have been invaded by the Invermay quartz diorite. Minor pyrrhotite, pyrite and chalcopyrite with local patches of tourmaline and magnetite are associated with the zone of fracturing. Exploration work includes soil geochemistry, VLF-EM, magnetometer, and IP surveys and 2 diamond drill holes totaling 156 m.

New Breccia

The New breccia is an occurrence of fractured and brecciated rocks with weak pyrite and trace chalcopyrite mineralization. It occurs in close proximity to the AM breccia and although unimpressive on surface, is likely related to the same hydrothermal processes as the other breccia bodies on the property. Work on the New breccia has been limited to mapping and geophysical surveys.

Tramline Breccia

The Tramline breccia is located at the northern end of the Giant Copper breccia corridor and consists of a northeast elongate zone of brecciated diorite with weak Cu mineralization. Pyroxene dikes have been mapped within the breccia envelope. Limited mapping and rock sampling has been completed on the Tramline breccia.

2015 GEOCHEMICAL SAMPLING PROGRAM:

The 2015 Giant Copper field program was completed in early summer, July 7-9, 2015, during a period of fine weather and warm days. A three man crew was based in nearby Hope, BC and accessed the claims daily from Highway 3. The Giant Copper gravel access road has not been maintained since the completion of the previous drilling campaign in 2007 and the upper portions had deteriorated slightly. An ATV was used for access from the locked gate at Cayuse Flats to the central portion of the property.

An original objective for the program was to complete selective re-logging of diamond core from the deep hole (GCS06-02, 868 m) drilled beneath the North Nose zone of the AM breccia. This could not be completed as the core storage facility on site had been vandalized and core scattered.

Two areas on the property were targeted for geochemical surveying with a goal of identifying additional mineralized breccia pipes.

The primary area of interest was the eastern slopes of the basin located 1200 m east of the AM breccia, 500 m east of the No. 1 breccia and south of the Giant fault (Figure GC-15-5). This area is considered underexplored and highly prospective for hosting additional breccia bodies. Following the discovery of the No. 1 breccia, Payne (1989), who had been contracted to complete geological mapping on the property, interpreted that the No.1 breccia and Invermay quartz diorite stock had been offset approximately 1 km to the northeast along the Giant fault (Figure GC-15-5). Very little work has been undertaken exploring this offset portion of the Invermay stock and the surrounding Ladner Group sediments, yet elsewhere on the property this intrusive margin hosts five of the seven known breccia pipes.

Several generations (1972, 1977 and 1989) of soil geochemical and geophysical surveys have been completed on the Giant Copper property. By far the most extensive of these was the 1989 survey grid which successfully identified the buried No. 1 breccia as an area of anomalous Cu, Pb, Zn and Au in soils with a coincident zone of high chargeability. The 1989 geochemical and geophysical surveys extended 300 m east of the No. 1 breccia but did not cover the eastern slopes of the basin targeted in 2015.

A 1,300 by 300 m soil sampling survey was completed in 2015 along the eastern slopes of the basin east of the No.1 breccia. Four north-south lines were sampled at 25 m intervals with a line spacing of 100 m. The northern limit of this sampling ended immediately above the 15 Level adit. All samples were drawn from the soil B-horizon and submitted to Bureau Veritas Mineral Laboratories, Canada, of Vancouver, BC for geochemical assay.

The second area of interest targeted during the 2015 program lies east of the Invermay and Pass breccias, north of the Giant fault. This area is mapped as Ladner Group and younger clastic sediments and includes the Cliff Anomaly, located 600 m east of the Pass breccia and previously identified at the northeastern corner of the 1989 South Section survey grid. The Cliff Anomaly is defined by a zone of As and Zn in soil anomalism with coincident northeast trending VLF-EM conductors hosted in Ladner Group sediments. Further to the northeast of the Cliff Anomaly the upper slopes of Smitheram Creek have not been systematically explored.

A first pass geochemical transect was completed in 2015 targeting this area east of the Pass breccia and Cliff Anomaly. Soil sampling at 25 m intervals along 1,030 m of the Giant Copper access road was completed to test for the presence of additional mineralized bodies upslope.

Results from the geochemical sampling program identified a 200 m x 350 m zone of weak copper (50 – 186 ppm Cu) and gold (maximum 525 ppb) in soil anomalism immediately south of the Giant fault and the 15 Level adit (See Figures GC-15-6 to GC-15-10). This zone trends northeast and spans both sides of the

small ridge that defines the edge of the upper basin.

A less well-defined broad zone of weakly elevated Cu, Pb, Zn and Au in soils is present across the completed survey grid at 5448000 N. The transect completed immediately above the access road on the north side of the Giant fault returned generally elevated Zn in soil levels with weak Pb anomalism in places. Across the survey area elevated Ag and As values were generally sporadic.

CONCLUSIONS:

The principle aim of the 2015 geochemical survey program was to target new mineralized breccia pipes within the Giant Copper breccia cluster. The survey focused on areas outside of the extensive geochemical and geophysical survey grids completed prior to 1990. The basin east of the No.1 and AM breccias was selected as a favorable location for additional breccia pipes due to the inferred presence of an offset portion of the Invermay stock on the south side of the Giant fault. This displaced portion of the intrusive stock was only identified relatively late in the development of the project.

The zone of Cu-Au in soil anomalism identified in the 2015 survey is situated in a similar geological setting to the No.1 breccia, which was first identified in 1989 from soil geochemistry and geophysical surveying. When comparing these zones the geochemical anomalism trends northeast over both and they are similarly located immediately south of the Giant fault on the margin of the Invermay quartz diorite stock. This contact between the Invermay stock and the Ladner Group sediments is considered highly prospective as it hosts five of the seven mineralized breccia pipes of the property. Prior to the interpreted displacement along the Giant fault, this newly identified area would have formed approximately 600 m from the AM breccia pipe and interpreted centre of the Giant Copper system.

Both the 2015 anomaly and the geochemical anomalism of the No.1 breccia are of a similar extent (200 by 350 m for the 2015 anomaly), but the No.1 breccia displays elevated Au, Ag, As, Zn, Cu and Pb geochemistry while this newly identified area displays only elevated Cu and Au values. The strongest Cu anomalism at the No. 1 breccia was considerably higher (>1000 ppm) than above the 15 level adit (max 186 ppm), and although the extent of the strong anomalism was tightly constrained at the No.1 breccia (100 by 200 m at >500 ppm), the plus 100 ppm Cu halo for both zones is of comparable size.

During the geochemical survey very little bedrock exposure was noted in the area east of the No.1 breccia and no sign of the underlying quartz diorite was observed to support the previous mapping and geological interpretation of the area. The extent of the Invermay stock in this area as indicated on the 1990 Bethlehem Resources mapping was not confirmed during the 2015 program and requires further follow up. (Figure GC-15-5)

On the north side of the Giant fault, the transect along the access road yielded elevated Zn-(Pb) values. Whilst not definitive of additional mineralization upslope, these results do appear consistent with the general zoning on the property with Pb-Zn-Ag mineralization located further out from the Cu-(Ag-Au) mineralized centre of the system.

RECOMMENDATIONS:

The zone of elevated Cu-Au in soils taken above the 15 Level adit on the Giant Copper property warrants additional follow up as it may be indicative of a new mineralized breccia pipe. The interpreted geological setting of this area, if correct, is very favorable for hosting additional breccia pipes within the Giant Copper system. The broadly spaced geochemical survey completed across this area in 2015 has produced an area

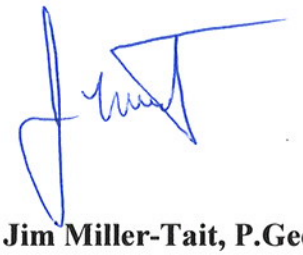
of interest, but additional surface work should be undertaken to confirm the extent and context of the Cu-Au anomalism.

The following work program of geological mapping and geochemical sampling is recommended:

- Geological mapping: This prospective area lies outside the region previously mapped in detail on the property. Bedrock exposure in this part of the Giant Copper system is sparse but an effort to improve the understanding of the underlying geology should be attempted with a focus on delineating the Invermay stock and any areas of fracturing or brecciation within the intrusive or the surrounding Ladner Group sediments. It should be noted that future timber harvesting is planned in this area, with cut blocks already laid out, and road development will likely produce more bedrock exposure of interest.

- Geochemical sampling: Additional infill soil sampling, at 25 m by 50 m, should be completed across the area of interest to reduce the current broad line spacing. The additional sampling should also extend coverage further to the east in this area and to the north, across the Giant fault.

Respectfully submitted,



Jim Miller-Tait, P.Geo.

STATEMENT OF QUALIFICATIONS:

For: **Jim Miller-Tait** of 828 Whitchurch Street, North Vancouver, B.C. V7L 2A4

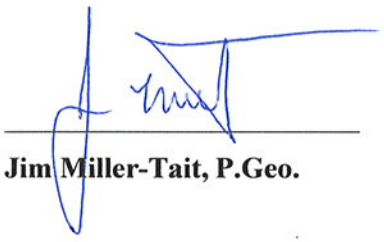
I graduated from the University of British Columbia with a Bachelor of Sciences Degree in Geology (1987);

I have been practicing my profession as a geologist in mineral exploration and mining continuously since 1987;

I am a fellow in good standing with the Geological Association of Canada;

I am a registered member in good standing as a Professional Geoscientist with the Association of Professional Engineers and Geoscientists of British Columbia;

The observations, conclusions and recommendations contained in the report are based on field examinations, personal surveying and the evaluation of results of the exploration program completed by the operator of the property.



Jim Miller-Tait, P.Geo.

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SECTION B: PROPERTY

SCHEDULE OF MINERAL TENURES:

GIANT COPPER PROPERTY: MINERAL TENURES					Date:	Apr 26 2016
OWNER:	Imperial Metals Corporation	100.00%	BC Client No.	144344	Tenures:	171
ROYALTY:	Campbell Resources Inc.	1.25% NSR			Cells/Units:	203
					Area (ha):	4,989.20

MINING DIVISION: New Westminster	LAND DISTRICT: Yale Division of Yale District	LAND TITLE DISTRICT: Kamloops
LOCATION: 37 km southeast of Hope, BC.		
MAP NO. NTS: 092H03	GEOGRAPHIC COORDINATES:	49° 10.5′ N; 121° 01.5′ W
BCGS: 092H015, 092H016, 092H025	UTM COORDINATES (NAD 83, ZONE 10):	5 448 790 N 643 950 E

Crown Granted Mineral Claims:

Lot No.	Tenure Type	Claim Name	Map No.	Grant Date	Folio No.	Taxes Paid To	Units	Area (ha)	Tax Rate / ha	Taxes
L. 1577	Crown Grant	A.M. No. 3	092H015	N/A	061301	2016/jul/02	1	16.34	$1.25	$20.43
L. 1579	Crown Grant	A.M. No. 1	092H015	1939/nov/01	061301	2016/jul/02	1	19.46	$1.25	$24.33
L. 1581	Crown Grant	A.M. No. 5	092H015	1939/nov/01	061301	2016/jul/02	1	17.83	$1.25	$22.29
L. 1584	Crown Grant	A.M. No. 4	092H015	1939/nov/01	061301	2016/jul/02	1	20.51	$1.25	$25.64
L. 1585	Crown Grant	Augustus No. 5 Fr.	092H015	1939/nov/02	061301	2016/jul/02	1	2.63	$1.25	$3.29
L. 1586	Crown Grant	A.M.	092H015	1939/nov/02	061301	2016/jul/02	1	19.45	$1.25	$24.31
L. 1587	Crown Grant	A.M. No. 2	092H015	1939/nov/02	061301	2016/jul/02	1	11.23	$1.25	$14.04
L. 1595	Crown Grant	Rex No. 1 Fr.	092H015	1939/nov/02	061301	2016/jul/02	1	6.75	$1.25	$8.44
Subtotal	**8**						**8**	**114.20**		**$142.75**

Legacy Claims:

Tenure No.	Tenure Type	Claim Name	Map No.	Record Date	Good To Date	Work Year	Cells	Area (ha)	Work Factor	Work**
235414	Mineral	RAN	092H015	1979/sep/21	2017/may/31	2	3	75.00	$5.00	$375.00
235415	Mineral	RAN FR.	092H015	1979/sep/21	2017/may/31	2	1	25.00	$5.00	$125.00
235417	Mineral	JOHN 1	092H016	1979/dec/12	2017/may/31	2	1	25.00	$5.00	$125.00
235418	Mineral	JOHN 2	092H016	1979/dec/12	2017/may/31	2	1	25.00	$5.00	$125.00
235419	Mineral	JOHN 3	092H016	1979/dec/12	2017/may/31	2	1	25.00	$5.00	$125.00
235420	Mineral	JOHN 4	092H016	1979/dec/12	2017/may/31	2	1	25.00	$5.00	$125.00
235426	Mineral	SLIDE FR.	092H015	1980/sep/02	2017/may/31	2	1	25.00	$5.00	$125.00
235428	Mineral	I.P.4 FR.	092H015	1980/sep/24	2017/may/31	2	1	25.00	$5.00	$125.00
235769	Mineral	CANAM 1 FR.	092H015	1988/sep/29	2017/may/31	2	1	25.00	$5.00	$125.00
235771	Mineral	CANAM 4 FR.	092H015	1988/oct/01	2017/may/31	2	1	25.00	$5.00	$125.00
235772	Mineral	CANAM 3	092H016	1988/oct/01	2017/may/31	2	16	400.00	$5.00	$2,000.00
235773	Mineral	CANAM 2	092H016	1988/oct/01	2017/may/31	2	16	400.00	$5.00	$2,000.00
236496	Mineral	VERNON #1	092H015	1943/jun/21	2017/may/31	2	1	25.00	$5.00	$125.00
236497	Mineral	VERNON #2	092H015	1943/jun/21	2017/may/31	2	1	25.00	$5.00	$125.00
236498	Mineral	VERNON #3	092H015	1943/jun/21	2017/may/31	2	1	25.00	$5.00	$125.00

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236503	Mineral	VERNON #8	092H015	1943/jun/21	2017/may/31	2	1	25.00	$5.00	$125.00
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236505	Mineral	HANK NO.7	092H015	1943/jun/21	2017/may/31	2	1	25.00	$5.00	$125.00
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236512	Mineral	MISTY NO.2	092H015	1953/apr/15	2017/may/31	2	1	25.00	$5.00	$125.00
236513	Mineral	MISTY NO.3	092H015	1953/apr/15	2017/may/31	2	1	25.00	$5.00	$125.00
236514	Mineral	MAY NO. 1	092H015	1954/feb/09	2017/may/31	2	1	25.00	$5.00	$125.00
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236519	Mineral	MAY NO. 6	092H015	1954/feb/09	2017/may/31	2	1	25.00	$5.00	$125.00
236520	Mineral	MAY NO. 7	092H015	1954/feb/09	2017/may/31	2	1	25.00	$5.00	$125.00
236521	Mineral	MAY NO. 8	092H015	1954/feb/09	2017/may/31	2	1	25.00	$5.00	$125.00
236522	Mineral	MAY NO. 9	092H015	1954/feb/09	2017/may/31	2	1	25.00	$5.00	$125.00
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236524	Mineral	MAY NO. 11	092H015	1954/feb/09	2017/may/31	2	1	25.00	$5.00	$125.00
236525	Mineral	INVERMAY NO. 3	092H015	1954/feb/24	2017/may/31	2	1	25.00	$5.00	$125.00
236526	Mineral	CAMBORNE NO. 1	092H015	1954/feb/24	2017/may/31	2	1	25.00	$5.00	$125.00
236527	Mineral	CAMBORNE NO. 2	092H015	1954/feb/24	2017/may/31	2	1	25.00	$5.00	$125.00
236528	Mineral	BROWN NO. 1	092H025	1954/sep/01	2017/may/31	2	1	25.00	$5.00	$125.00
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236531	Mineral	BROWN NO.4	092H025	1954/sep/01	2017/may/31	2	1	25.00	$5.00	$125.00
236532	Mineral	MAY #16	092H015	1955/sep/15	2017/may/31	2	1	25.00	$5.00	$125.00
236533	Mineral	RED #1	092H015	1958/dec/19	2017/may/31	2	1	25.00	$5.00	$125.00
236534	Mineral	RED #2	092H015	1958/dec/19	2017/may/31	2	1	25.00	$5.00	$125.00
236535	Mineral	RED #3	092H015	1958/dec/19	2017/may/31	2	1	25.00	$5.00	$125.00
236536	Mineral	RED #4	092H015	1958/dec/19	2017/may/31	2	1	25.00	$5.00	$125.00
236537	Mineral	JET NO. 1 FR.	092H015	1958/dec/19	2017/may/31	2	1	25.00	$5.00	$125.00
236538	Mineral	SABRE NO.1	092H015	1958/dec/19	2017/may/31	2	1	25.00	$5.00	$125.00
236590	Mineral	G.E. NO.1	092H016	1964/oct/09	2017/may/31	2	1	25.00	$5.00	$125.00

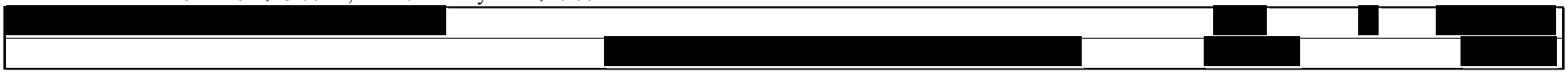
236591	Mineral	G.E. NO.2	092H015	1964/oct/09	2017/may/31	2	1	25.00	$5.00	$125.00
236592	Mineral	G.E. NO.3	092H016	1964/oct/09	2017/may/31	2	1	25.00	$5.00	$125.00
236593	Mineral	G.E. NO.4	092H016	1964/oct/09	2017/may/31	2	1	25.00	$5.00	$125.00
236594	Mineral	G.E. NO.5	092H016	1964/oct/09	2017/may/31	2	1	25.00	$5.00	$125.00
236595	Mineral	G.E. NO.6	092H016	1964/oct/09	2017/may/31	2	1	25.00	$5.00	$125.00
236596	Mineral	G.E. NO.7	092H016	1964/oct/09	2017/may/31	2	1	25.00	$5.00	$125.00
236597	Mineral	G.E. NO.8	092H016	1964/oct/09	2017/may/31	2	1	25.00	$5.00	$125.00
236625	Mineral	LOIS FR	092H015	1967/jun/02	2017/may/31	2	1	25.00	$5.00	$125.00
236626	Mineral	LOIS NO.1	092H015	1967/jun/02	2017/may/31	2	1	25.00	$5.00	$125.00
236627	Mineral	LOIS NO.2	092H015	1967/jun/02	2017/may/31	2	1	25.00	$5.00	$125.00
236628	Mineral	LOIS 3	092H015	1967/jun/02	2017/may/31	2	1	25.00	$5.00	$125.00
236629	Mineral	LOIS 4	092H015	1967/jun/02	2017/may/31	2	1	25.00	$5.00	$125.00
236630	Mineral	LOIS 5	092H015	1967/jun/02	2017/may/31	2	1	25.00	$5.00	$125.00
236631	Mineral	LOIS 6	092H015	1967/jun/02	2017/may/31	2	1	25.00	$5.00	$125.00
236632	Mineral	LOIS 8	092H015	1967/jun/02	2017/may/31	2	1	25.00	$5.00	$125.00
236633	Mineral	LOIS 9	092H015	1967/jun/02	2017/may/31	2	1	25.00	$5.00	$125.00
236634	Mineral	LOIS 10	092H015	1967/jun/02	2017/may/31	2	1	25.00	$5.00	$125.00
236635	Mineral	LOIS 11	092H015	1967/jun/02	2017/may/31	2	1	25.00	$5.00	$125.00
236636	Mineral	LOIS 12	092H015	1967/jun/02	2017/may/31	2	1	25.00	$5.00	$125.00
236637	Mineral	LOIS 13	092H015	1967/jun/02	2017/may/31	2	1	25.00	$5.00	$125.00
236638	Mineral	LOIS 14	092H015	1967/jun/02	2017/may/31	2	1	25.00	$5.00	$125.00
236639	Mineral	LESLIE	092H015	1967/jun/13	2017/may/31	2	1	25.00	$5.00	$125.00
236640	Mineral	LESLIE 1	092H015	1967/jun/13	2017/may/31	2	1	25.00	$5.00	$125.00
236641	Mineral	LESLIE 2	092H015	1967/jun/13	2017/may/31	2	1	25.00	$5.00	$125.00
236642	Mineral	LESLIE 3	092H015	1967/jun/13	2017/may/31	2	1	25.00	$5.00	$125.00
236645	Mineral	GM NO. 27	092H016	1968/may/10	2017/may/31	2	1	25.00	$5.00	$125.00
236646	Mineral	GM NO. 28	092H016	1968/may/10	2017/may/31	2	1	25.00	$5.00	$125.00
236647	Mineral	GM NO. 29	092H016	1968/may/10	2017/may/31	2	1	25.00	$5.00	$125.00
236648	Mineral	GM NO. 30	092H016	1968/may/10	2017/may/31	2	1	25.00	$5.00	$125.00
236649	Mineral	GM NO. 31	092H015	1968/may/10	2017/may/31	2	1	25.00	$5.00	$125.00
236650	Mineral	GM NO. 32	092H015	1968/may/10	2017/may/31	2	1	25.00	$5.00	$125.00
236651	Mineral	G.E. #9	092H016	1968/may/10	2017/may/31	2	1	25.00	$5.00	$125.00
236652	Mineral	G.E. #10	092H016	1968/may/10	2017/may/31	2	1	25.00	$5.00	$125.00
236653	Mineral	G.E. #11	092H016	1968/may/10	2017/may/31	2	1	25.00	$5.00	$125.00
236654	Mineral	G.E. #12	092H016	1968/may/10	2017/may/31	2	1	25.00	$5.00	$125.00
236655	Mineral	G.E. #3 FR.	092H015	1968/may/10	2017/may/31	2	1	25.00	$5.00	$125.00
236695	Mineral	GC-35	092H015	1969/aug/01	2017/may/31	2	1	25.00	$5.00	$125.00

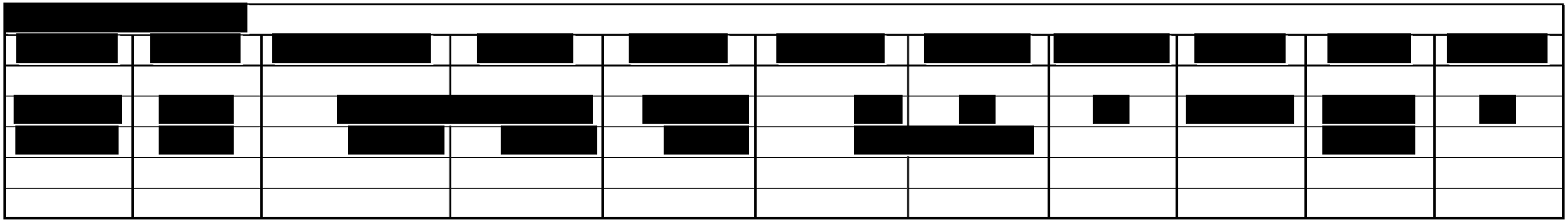
236696	Mineral	GC-37	092H015	1969/may/27	2017/may/31	2	1	25.00	$5.00	$125.00
236697	Mineral	GC-38	092H015	1969/aug/01	2017/may/31	2	1	25.00	$5.00	$125.00
236698	Mineral	GC-39	092H015	1969/aug/01	2017/may/31	2	1	25.00	$5.00	$125.00
236699	Mineral	GC-40	092H015	1969/may/27	2017/may/31	2	1	25.00	$5.00	$125.00
236700	Mineral	GC-42	092H015	1969/may/27	2017/may/31	2	1	25.00	$5.00	$125.00
236701	Mineral	GC-43	092H015	1969/may/27	2017/may/31	2	1	25.00	$5.00	$125.00
236702	Mineral	GC-46	092H015	1969/may/27	2017/may/31	2	1	25.00	$5.00	$125.00
236703	Mineral	GC-48	092H015	1969/may/27	2017/may/31	2	1	25.00	$5.00	$125.00
236704	Mineral	GC-49	092H015	1969/may/27	2017/may/31	2	1	25.00	$5.00	$125.00
236705	Mineral	GC-50	092H015	1969/may/27	2017/may/31	2	1	25.00	$5.00	$125.00
236706	Mineral	GC-51	092H015	1969/may/27	2017/may/31	2	1	25.00	$5.00	$125.00
236709	Mineral	PEG NO.1	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236710	Mineral	PEG NO.2	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236711	Mineral	G.C. 52	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236712	Mineral	G.C. 53	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236713	Mineral	G.C. 54	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236714	Mineral	G.C. 55	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236715	Mineral	G.C. 56	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236716	Mineral	G.C. 57	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236717	Mineral	G.C. 58	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236718	Mineral	G.C. 59	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236719	Mineral	G.C. 60	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236720	Mineral	G.C. 61	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236721	Mineral	G.C. 62	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236722	Mineral	G.C. 63	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236723	Mineral	G.C. 64	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236724	Mineral	G.C. 65	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236725	Mineral	G.C. 66	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236726	Mineral	G.C. 67	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236727	Mineral	G.C. 68	092H015	1969/oct/08	2017/may/31	2	1	25.00	$5.00	$125.00
236728	Mineral	26 MILE FR.	092H015	1969/nov/07	2017/may/31	2	1	25.00	$5.00	$125.00
236729	Mineral	LORNA FR.	092H015	1969/nov/07	2017/may/31	2	1	25.00	$5.00	$125.00
236730	Mineral	LOIS 7 FR.	092H015	1969/nov/07	2017/may/31	2	1	25.00	$5.00	$125.00
236731	Mineral	BARB NO.4	092H015	1969/dec/17	2017/may/31	2	1	25.00	$5.00	$125.00
236732	Mineral	BARB NO.3	092H015	1969/dec/17	2017/may/31	2	1	25.00	$5.00	$125.00
236733	Mineral	I P NO.1 FR.	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236734	Mineral	I P NO.2 FR.	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00

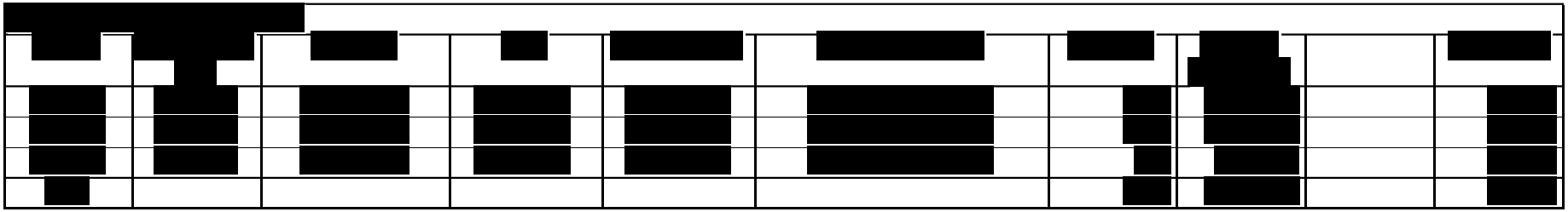
236735	Mineral	I P NO.5 FR.	092H016	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236736	Mineral	I P NO.6 FR.	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236737	Mineral	I P NO.7 FR.	092H016	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236738	Mineral	I P NO.8 FR.	092H016	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236739	Mineral	I P NO.9 FR.	092H016	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236740	Mineral	RIDGE 1 FR.	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236741	Mineral	RIDGE 2 FR.	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236742	Mineral	RIDGE 3 FR.	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236743	Mineral	GC 36	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236744	Mineral	GC 41	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236745	Mineral	GC 44	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236746	Mineral	GC 45	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236747	Mineral	GC 47	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236748	Mineral	HANK NO.1 FR.	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236749	Mineral	HANK NO.2	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236750	Mineral	HANK NO.4	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236751	Mineral	HANK NO.6	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236752	Mineral	HANK NO.8	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236753	Mineral	MAY FR.	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236754	Mineral	JET NO.2 FR.	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236755	Mineral	INVERMAY NO.1	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236756	Mineral	INVERMAY NO.2	092H015	1969/dec/08	2017/may/31	2	1	25.00	$5.00	$125.00
236776	Mineral	REX #11	092H016	1970/jun/12	2017/may/31	2	1	25.00	$5.00	$125.00
236777	Mineral	REX #12	092H016	1970/jun/12	2017/may/31	2	1	25.00	$5.00	$125.00
236778	Mineral	REX #13	092H016	1970/jun/12	2017/may/31	2	1	25.00	$5.00	$125.00
236779	Mineral	REX #14	092H016	1970/jun/12	2017/may/31	2	1	25.00	$5.00	$125.00
236780	Mineral	REX #15	092H015	1970/jun/12	2017/may/31	2	1	25.00	$5.00	$125.00
236781	Mineral	REX #16	092H015	1970/jun/12	2017/may/31	2	1	25.00	$5.00	$125.00
236782	Mineral	REX #17	092H015	1970/jun/12	2017/may/31	2	1	25.00	$5.00	$125.00
236783	Mineral	REX #18	092H015	1970/jun/12	2017/may/31	2	1	25.00	$5.00	$125.00
236784	Mineral	REX #19	092H015	1970/jun/12	2017/may/31	2	1	25.00	$5.00	$125.00
236785	Mineral	REX #20	092H015	1970/jun/12	2017/may/31	2	1	25.00	$5.00	$125.00
236786	Mineral	REX #21	092H015	1970/jun/12	2017/may/31	2	1	25.00	$5.00	$125.00
236787	Mineral	REX #22	092H015	1970/jun/12	2017/may/31	2	1	25.00	$5.00	$125.00
236815	Mineral	REX #22 FR.	092H015	1971/sep/23	2017/may/31	2	1	25.00	$5.00	$125.00
236816	Mineral	AXE #2	092H015	1971/oct/13	2017/may/31	2	1	25.00	$5.00	$125.00
236817	Mineral	AXE #10 FR.	092H015	1971/oct/13	2017/may/31	2	1	25.00	$5.00	$125.00

Subtotal	**163**						**195**	**4,875.00**		**$24,375.00**
TOTAL	**171**						**203**	**4,989.20**		**$24,517.75**

** Based on Mineral Tenure Act Regulation Amendments effective July 1, 2012: Year 1 and 2 / $5.00/ha; Year 3 and 4 / $10.00/ha;
Year 5 and 6 / $15.00/ha; Year 7 and beyond / $20.00/ha







SECTION C: EXPENDITURES

GIANT COPPER 2015 GEOCHEMICAL SAMPLING PROGRAM

IMPERIAL METALS CORPORATION

GIANT COPPER PROJECT **Expenditure: 2015 Geochemical Sampling Program** **May 05 2016**

Item / Contractor	Work	Period	Quantity	Unit	Rate	Amount
Personnel:						
Jim Miller-Tait, P.Geo.	Exploration Manager, general supervision	Jun 1 - Jul 8, 2015	2.5	days	$550.00	$1,375.00
Ben Eggers, P.Geo.	Geologist	Jun 9 - Jul 10, 2015	10.5	days	$450.00	$4,725.00
George Frank	Field Assistant	Jul 6 - 10, 2015	5	days	$275.00	$1,375.00
Parker Schachtel	Field Assistant	Jul 6 - 10, 2015	4.5	days	$275.00	$1,237.50
Subtotal						$8,712.50
Accommodation & Meals:						
Room - Holiday Inn, Vancouver	Project planning	Jun 21, 2015	1	man days	$218.90	$218.90
Rooms - Skagit Motor Inn, Hope	Site visit for project planning	Jun 22, 2015	2	man days	$105.84	$211.68
Rooms - Skagit Motor Inn, Hope	Field Program	Jul 6 - 10, 2015	13	man days	$105.84	$1,375.92
Food / Meal Expenditures	Site Visit & Field Program	Jun 21 - 22 & Jul 6 - 10, 2015	16	man days	$47.41	$758.58
Subtotal						$2,565.08
Transportation (Vehicle):						
Atlas Drilling Ltd. - Kamloops	Arctic Cat ATV rental & mobilization to project	Jul 6 - 9, 2015	3	days	$266.67	$800.00
Pickup - Expl Manager, Ford F-150	2x site visits	Jun 21 - Jul 8, 2015	840	km	$0.40	$336.00
Fuel - Expl Manager, Ford F-150	2x site visits	Jun 21 - Jul 8, 2015	1	units	$230.20	$230.20
Pickup - Geologist, Nissan Frontier	1x office visit, 1x site visit & field program	Jun 9 - Jul 10, 2015	1686	km	$0.40	$674.40
Fuel - Geologist, Nissan Frontier	1x office visit, 1x site visit & field program	Jun 9 - Jul 10, 2015	1	units	$301.03	$301.03
BC Ferries - vehicle and personel	4x ferry crossings - 2x with crew	Jun 9 - Jul 10, 2015	4	units	$84.25	$337.00
Subtotal						$2,678.63
Assaying:						
Acme Analytical Laboratories	Soil Samples: AQ201 analytical code	VAN15001736	240	samples	$19.06	$4,574.40
Acme Analytical Laboratories	Rock Samples: AQ201 analytical code	VAN15001737	3	samples	$23.97	$71.91
Subtotal						$4,646.31
Field Supplies:						
Deakin Equipment Ltd.	Sampling supplies	Jul 6 - 10, 2015	1	units	$212.49	$212.49
Blackbird Geoscience Ltd.	VHF Radio rental x2	Jul 7 - 9, 2015	3	days	$10.00	$30.00
Blackbird Geoscience Ltd.	Chainsaw rental	Jul 7, 2015	1	days	$45.00	$45.00
Satellite Phone - Globalstar	Activation plus 1 month rental & shipping	Jul, 2015	1	units	$296.58	$296.58
Rona	Replacement gate pad lock	Jul 7, 2015	1	units	$43.10	$43.10
Subtotal						$627.17
Drafting:						
Melissa Darney	GIS work: plan drafting		2	days	$300.00	$600.00
Subtotal						$600.00
Report Preparation:						
Ben Eggers, P.Geo.	Data compilation, report drafting		3	days	$450.00	$1,350.00
Jim Miller-Tait, P.Geo.	Report preparation		1.5	days	$550.00	$825.00
Erik Andersen	Report editing, formatting		6	hours	$54.30	$325.80
Subtotal						$2,500.80

Total	**Tenures: 236533, 236534, 236535, 236590, 236591, 236592, 236736, 236737, 236784, 236785, 236786 & 236787**					**$22,330.49**

SECTION D: ANALYTICAL REPORTS

1. Analyses carried out by Bureau Veritas Mineral Laboratories, Canada, of Vancouver, BC.

File Number	Date of Certificate	No. of Samples	Sample Type	Analytical Procedure
Mineral Analysis:				
VAN15001736	Jul 30 2015	240	Soil	AQ201
VAN15001737	Jul 28 2015	3	Rock	AQ201
Total		**243**		

2. Statement of Analytical Procedures: 1 data sheet
    1. Acme Labs AQ300, AQ200; Multi-Element (36) Assay by ICP-ES/MS; Aqua Regia Digestion

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Imperial Metals Corporation**
200 - 580 Hornby St.
Vancouver BC V6C 3B6 CANADA

Submitted By: Melissa Darney
Receiving Lab: Canada-Vancouver
Received: July 17, 2015
Report Date: July 30, 2015
Page: 1 of 9

CERTIFICATE OF ANALYSIS VAN15001736.1

CLIENT JOB INFORMATION

Project: Giant Copper
Shipment ID: GC2015-___01___
P.O. Number
Number of Samples: 240

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	240	Dry at 60C			VAN
SS80	240	Dry at 60C sieve 100g to -80 mesh			VAN
AQ201	240	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Imperial Metals Corporation
200 - 580 Hornby St.
Vancouver BC V6C 3B6
CANADA

CC: Jim Miller-Tait
Erik Andersen

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Geochemical Laboratory Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Imperial Metals Corporation**
200 - 580 Hornby St.
Vancouver BC V6C 3B6 CANADA

Project: Giant Copper
Report Date: July 30, 2015

CERTIFICATE OF ANALYSIS VAN15001736.1

		Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
5200E+00	Soil		7.5	44.1	12.7	340	0.3	14.6	15.3	1870	4.80	20.6	1.4	0.2	9	2.9	3.2	0.2	70	0.15	0.137	12
5200E+25	Soil		12.6	50.2	18.2	561	0.5	20.7	33.4	3453	7.55	33.4	2.7	0.8	7	3.9	5.2	0.1	83	0.12	0.162	13
5200E+50	Soil		10.7	38.1	17.0	542	0.4	19.5	27.5	3490	6.31	28.6	1.7	0.5	14	3.9	4.2	0.2	81	0.30	0.148	14
5200E+75	Soil		12.5	33.4	16.7	427	0.3	16.2	26.1	3319	5.46	27.2	1.5	0.2	17	5.5	4.0	0.2	74	0.39	0.181	12
5200E+100	Soil		9.0	24.7	11.9	200	0.5	8.0	8.0	654	4.94	17.5	1.3	0.1	6	1.6	3.0	0.2	82	0.08	0.098	5
5200E+125	Soil		11.5	41.0	19.8	559	0.1	21.5	30.5	3781	6.52	30.5	1.9	0.6	11	4.7	5.1	0.1	82	0.18	0.184	13
5200E+200	Soil		2.6	15.8	13.0	33	0.4	4.9	1.8	69	0.91	54.2	1.1	1.0	11	0.4	1.0	0.2	30	0.30	0.066	10
5200E+250	Soil		8.3	39.1	34.7	105	0.4	10.7	8.3	856	4.40	39.1	4.2	0.7	18	1.3	3.6	1.0	103	0.50	0.074	8
5200E+300	Soil		5.4	42.9	30.6	144	0.8	12.9	11.2	1242	3.50	83.8	4.5	0.3	23	2.5	3.7	1.0	86	0.72	0.066	7
5200E+325	Soil		4.4	45.9	45.9	168	1.0	13.3	8.7	581	3.64	51.3	8.3	0.4	15	2.1	3.3	1.3	77	0.32	0.074	7
5200E+350	Soil		11.4	49.3	41.0	197	0.5	20.9	13.1	1574	3.44	70.7	4.0	0.6	28	5.6	4.8	1.4	84	0.80	0.066	10
5200E+375	Soil		8.9	40.2	39.8	197	0.6	39.9	12.9	2185	3.09	67.1	4.4	0.5	22	4.6	4.7	1.2	90	0.66	0.078	7
5200E+400	Soil		6.0	46.2	29.4	122	0.8	13.4	5.1	325	4.74	48.6	3.4	0.7	6	1.0	3.9	1.2	100	0.08	0.081	5
5200E+425	Soil		4.9	56.8	43.8	236	0.7	17.1	11.9	898	5.24	63.0	5.1	1.0	6	1.2	7.4	1.8	115	0.08	0.144	7
5200E+450	Soil		5.2	65.4	71.7	378	0.6	19.1	10.8	1271	6.05	96.4	8.2	0.6	9	2.4	9.8	4.2	126	0.11	0.096	5
5200E+475	Soil		4.3	56.6	62.6	271	1.0	14.4	9.3	1577	4.84	73.4	5.8	0.2	8	2.0	7.1	3.7	104	0.10	0.114	4
5200E+500	Soil		4.2	42.1	55.5	207	1.5	10.8	9.1	2713	3.80	55.6	5.7	0.2	7	1.6	4.9	2.4	89	0.09	0.111	4
5200E+525	Soil		4.0	32.3	41.5	146	0.7	8.6	4.5	509	4.21	47.9	2.6	0.5	5	1.0	4.4	2.1	105	0.06	0.084	3
5200E+550	Soil		4.2	56.1	75.5	353	0.7	16.1	16.9	2499	5.68	71.4	12.8	0.9	6	2.2	7.4	2.5	109	0.15	0.254	6
5200E+575	Soil		12.7	75.7	53.6	364	0.6	15.9	13.9	5611	3.41	376.7	5.6	0.3	10	12.8	4.5	1.8	83	0.14	0.153	11
5200E+600	Soil		6.0	26.0	35.7	131	0.6	15.6	4.9	339	3.67	122.7	2.8	0.3	23	2.1	3.3	2.1	82	0.84	0.062	4
5200E+625	Soil		9.4	21.6	32.3	94	0.3	5.8	4.2	557	2.80	175.1	5.2	0.2	7	2.0	2.8	1.5	77	0.13	0.050	2
5200E+650	Soil		4.0	30.2	49.6	171	1.1	6.9	4.3	481	3.80	75.5	7.9	0.3	4	0.9	5.7	2.7	85	0.05	0.079	3
5200E+675	Soil		3.4	35.6	47.2	187	0.7	7.1	6.7	752	4.19	73.2	12.4	0.7	5	0.9	5.4	2.3	77	0.05	0.101	3
5200E+700	Soil		3.2	22.6	34.0	98	0.2	4.0	3.5	1382	2.03	39.7	2.4	0.1	8	0.7	2.3	1.4	62	0.23	0.093	2
5200E+725	Soil		7.3	32.8	43.4	158	0.7	9.3	5.4	226	3.65	112.0	5.0	0.9	10	1.0	3.2	2.2	80	0.22	0.065	4
5200E+750	Soil		8.0	24.8	92.3	133	1.7	4.8	3.4	247	3.91	163.6	6.9	1.1	9	1.1	2.7	1.6	87	0.16	0.072	3
5200E+775	Soil		5.1	23.3	40.9	185	0.5	7.6	8.4	857	3.14	698.6	6.5	1.0	20	2.2	2.1	1.1	68	0.73	0.068	3
5200E+950	Soil		34.7	49.5	31.7	158	0.6	16.5	27.1	1729	3.70	39.5	13.2	0.9	17	0.9	2.4	1.2	91	0.25	0.039	6
5200E+975	Soil		19.6	21.3	16.7	75	0.2	8.3	4.7	212	2.42	24.6	1.4	0.7	8	0.4	1.5	0.8	67	0.10	0.034	3

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		Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
5200E+00	Soil		12	0.35	105	0.011	3	2.22	0.010	0.06	<0.1	0.07	3.2	0.3	<0.05	7	2.7	<0.2
5200E+25	Soil		16	0.54	128	0.004	4	2.51	0.006	0.07	0.1	0.08	8.3	0.6	<0.05	6	4.7	<0.2
5200E+50	Soil		14	0.47	149	0.006	3	2.21	0.008	0.07	0.1	0.05	6.0	0.5	0.05	7	2.7	<0.2
5200E+75	Soil		14	0.41	115	0.010	3	2.09	0.008	0.07	0.1	0.06	3.7	0.4	0.10	7	3.2	<0.2
5200E+100	Soil		11	0.20	87	0.007	3	1.53	0.007	0.05	0.1	0.07	2.6	0.4	0.06	7	2.1	<0.2
5200E+125	Soil		17	0.60	162	0.004	3	2.17	0.006	0.07	0.1	0.05	7.4	0.5	0.08	6	3.9	<0.2
5200E+200	Soil		12	0.10	19	0.103	2	4.15	0.021	0.02	0.2	0.05	3.2	0.1	0.08	10	1.4	<0.2
5200E+250	Soil		24	0.38	36	0.105	4	3.28	0.012	0.05	0.2	0.05	5.1	0.2	<0.05	14	2.4	<0.2
5200E+300	Soil		25	0.41	42	0.053	5	2.76	0.014	0.04	0.2	0.05	4.9	0.2	0.06	9	3.5	<0.2
5200E+325	Soil		22	0.39	40	0.053	4	3.19	0.009	0.04	0.2	0.11	5.0	0.1	0.07	10	3.3	<0.2
5200E+350	Soil		25	0.42	65	0.053	4	3.20	0.014	0.05	0.2	0.12	7.0	0.3	<0.05	11	8.2	<0.2
5200E+375	Soil		30	0.48	50	0.064	4	2.81	0.010	0.05	0.2	0.07	6.1	0.4	<0.05	10	2.9	<0.2
5200E+400	Soil		28	0.28	55	0.062	4	3.13	0.008	0.04	0.2	0.17	5.1	0.2	<0.05	11	2.2	<0.2
5200E+425	Soil		29	0.47	74	0.057	6	3.62	0.007	0.05	0.2	0.08	8.6	0.2	<0.05	9	2.1	<0.2
5200E+450	Soil		27	0.52	60	0.020	5	2.74	0.006	0.06	0.2	0.11	7.8	0.3	<0.05	10	1.6	0.4
5200E+475	Soil		23	0.40	56	0.023	5	2.47	0.008	0.05	0.1	0.12	5.0	0.3	<0.05	9	1.5	0.4
5200E+500	Soil		19	0.26	55	0.029	4	2.33	0.009	0.04	0.1	0.10	3.6	0.3	<0.05	10	1.2	0.3
5200E+525	Soil		16	0.16	45	0.022	2	2.21	0.008	0.03	0.2	0.11	3.7	0.2	<0.05	10	0.9	<0.2
5200E+550	Soil		31	0.48	65	0.017	5	4.59	0.006	0.04	0.2	0.18	7.9	0.2	<0.05	10	1.9	0.3
5200E+575	Soil		33	0.36	80	0.038	3	3.55	0.010	0.04	0.2	0.16	4.8	0.4	0.06	10	2.5	<0.2
5200E+600	Soil		45	0.28	29	0.062	3	2.38	0.012	0.03	0.2	0.11	3.2	0.1	<0.05	10	2.2	0.4
5200E+625	Soil		10	0.10	24	0.049	4	1.04	0.011	0.03	0.3	0.10	2.1	0.1	<0.05	9	0.6	<0.2
5200E+650	Soil		14	0.19	36	0.042	4	2.32	0.008	0.03	0.2	0.17	3.4	0.2	<0.05	10	1.1	0.2
5200E+675	Soil		14	0.17	37	0.056	3	3.59	0.010	0.03	0.3	0.17	4.5	0.1	<0.05	10	1.1	0.2
5200E+700	Soil		8	0.08	25	0.046	6	0.62	0.010	0.04	0.2	0.09	1.8	0.2	<0.05	7	<0.5	<0.2
5200E+725	Soil		18	0.27	52	0.050	3	3.58	0.009	0.03	0.4	0.13	4.2	0.1	<0.05	12	1.2	<0.2
5200E+750	Soil		15	0.13	35	0.074	4	4.01	0.010	0.03	0.5	0.20	4.4	0.1	<0.05	12	1.6	<0.2
5200E+775	Soil		14	0.19	37	0.092	6	4.25	0.013	0.04	0.7	0.18	3.9	<0.1	<0.05	12	1.3	<0.2
5200E+950	Soil		27	0.71	79	0.085	3	3.03	0.010	0.06	0.2	0.06	5.9	0.2	<0.05	12	1.2	<0.2
5200E+975	Soil		14	0.35	53	0.095	2	1.57	0.009	0.03	0.2	0.05	3.0	<0.1	<0.05	11	<0.5	<0.2

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		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
5200E+1000	Soil		43.4	22.8	22.1	100	0.4	9.9	7.2	1026	2.94	17.8	1.7	0.9	12	0.6	1.9	0.8	79	0.19	0.040	5
5200E+1025	Soil		9.3	50.5	26.0	135	0.3	17.3	8.9	436	3.34	41.6	21.8	1.0	14	0.6	2.2	1.0	78	0.20	0.062	5
5200E+1050	Soil		16.5	28.1	20.0	102	0.4	11.5	4.8	199	3.06	24.8	81.9	0.6	9	0.4	1.4	1.3	74	0.11	0.053	3
5200E+1075	Soil		14.4	41.0	18.8	70	0.9	7.5	7.6	306	3.44	29.0	5.7	0.7	10	0.8	0.9	1.9	65	0.11	0.084	7
5200E+1100	Soil		23.9	26.4	17.4	79	2.0	6.8	4.0	101	3.01	35.7	6.3	1.5	10	0.4	1.1	0.6	68	0.12	0.074	3
5200E+1125	Soil		7.3	41.6	21.2	107	0.8	11.5	5.3	238	4.02	39.0	5.0	0.8	12	0.9	1.8	0.8	76	0.16	0.080	4
5200E+1150	Soil		4.2	42.1	23.8	116	0.7	11.8	6.2	240	4.26	36.8	5.8	1.6	8	0.6	1.8	1.0	76	0.10	0.072	6
5200E+1175	Soil		2.8	4.2	13.0	10	0.2	1.4	0.7	24	0.48	3.4	4.2	0.2	5	0.2	0.6	0.6	30	0.04	0.019	2
5200E+1200	Soil		9.7	33.2	23.7	79	1.0	8.2	4.2	109	3.49	44.2	10.5	1.6	11	0.5	2.0	0.9	92	0.16	0.046	4
5200E+1225	Soil		6.1	35.6	31.3	143	1.0	12.6	6.4	245	3.95	62.7	5.5	1.1	10	1.1	2.6	1.1	70	0.14	0.064	3
5200E+1250	Soil		13.9	38.3	43.9	197	1.1	21.2	15.8	362	4.45	154.6	27.9	1.4	13	0.9	3.5	1.6	120	0.16	0.053	4
5200E+1275	Soil		68.2	48.7	31.5	56	1.7	4.7	38.1	2699	9.91	211.8	4.9	1.1	9	1.4	5.1	0.9	126	0.11	0.114	17
5200E+1300	Soil		27.4	18.3	34.2	183	0.1	14.2	12.2	1583	3.65	100.4	8.0	0.5	27	0.9	1.8	1.0	92	0.49	0.062	4
5300E+00	Soil		5.6	27.5	14.5	193	0.4	6.6	19.2	2934	5.82	30.2	2.5	0.4	4	0.8	3.5	0.2	66	0.07	0.213	6
5300E+25	Soil		9.1	52.0	17.4	505	0.4	18.1	37.9	7227	8.73	46.0	3.0	0.5	12	4.4	7.6	0.1	88	0.39	0.229	9
5300E+50	Soil		5.8	22.4	10.6	159	0.4	7.0	8.3	1085	4.24	16.0	0.6	0.1	9	1.5	2.7	0.2	88	0.11	0.072	5
5300E+75	Soil		3.5	41.2	32.7	219	0.4	15.7	13.7	980	3.54	39.3	2.8	0.3	28	2.8	3.8	1.0	73	0.96	0.102	5
5300E+100	Soil		4.8	28.3	23.4	162	0.2	11.3	6.4	268	4.56	39.7	3.2	1.1	10	1.0	3.5	0.9	104	0.12	0.038	5
5300E+125	Soil		5.4	33.8	28.8	174	0.7	12.5	11.8	879	3.65	73.9	6.7	0.3	31	3.9	5.3	1.0	90	1.05	0.086	10
5300E+175	Soil		2.5	19.8	14.8	93	0.5	6.2	7.9	1164	2.48	68.1	0.8	0.2	39	5.1	2.1	0.4	52	1.54	0.102	7
5300E+200	Soil		4.1	21.5	21.8	114	0.4	9.4	4.6	351	2.23	37.5	4.4	0.1	29	2.3	3.0	0.7	62	1.17	0.088	5
5300E+225	Soil		4.8	27.7	25.6	150	0.6	10.4	9.3	1420	3.06	87.4	1.8	0.2	33	5.5	3.8	0.7	71	1.32	0.133	8
5300E+250	Soil		3.4	30.8	31.5	157	0.7	12.6	12.9	766	3.88	155.3	3.4	0.3	38	2.5	3.7	0.9	91	1.44	0.085	8
5300E+275	Soil		3.6	35.5	28.6	144	0.5	13.0	19.6	1498	3.82	45.1	2.8	0.2	57	2.1	3.5	0.9	68	1.74	0.092	5
5300E+300	Soil		8.5	54.2	36.2	300	0.9	34.8	13.5	2184	3.86	114.5	4.6	0.3	36	7.1	5.1	1.2	86	1.17	0.096	10
5300E+325	Soil		3.7	31.3	28.8	254	0.9	18.5	9.1	482	4.63	48.1	74.5	1.0	7	0.9	5.6	1.4	96	0.11	0.059	4
5300E+350	Soil		3.2	29.4	28.3	219	0.7	16.2	6.4	522	3.80	38.3	6.8	0.6	5	0.9	4.9	1.1	98	0.12	0.052	3
5300E+375	Soil		5.3	29.9	23.8	154	0.5	11.9	4.9	381	5.36	50.2	2.6	0.4	4	0.8	5.8	1.3	134	0.05	0.080	4
5300E+400	Soil		5.6	24.9	21.8	139	0.4	13.0	7.6	896	4.28	104.4	1.1	0.9	11	1.3	3.2	1.2	100	0.13	0.077	5
5300E+425	Soil		3.1	18.8	24.2	118	0.5	7.1	3.5	306	3.49	25.1	0.8	0.4	4	0.4	4.6	1.5	93	0.04	0.054	3

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	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
5200E+1000	Soil	17	0.36	59	0.100	2	2.23	0.011	0.04	0.2	0.03	3.5	0.1	<0.05	12	0.8	<0.2
5200E+1025	Soil	24	0.74	112	0.082	4	2.96	0.008	0.07	0.3	0.08	6.1	0.1	<0.05	10	0.6	<0.2
5200E+1050	Soil	17	0.35	71	0.056	2	2.20	0.008	0.05	0.2	0.11	3.2	<0.1	<0.05	12	<0.5	<0.2
5200E+1075	Soil	14	0.21	47	0.080	2	2.65	0.011	0.03	0.2	0.13	3.9	<0.1	<0.05	12	1.8	0.2
5200E+1100	Soil	17	0.17	41	0.096	2	4.21	0.012	0.03	0.3	0.15	3.7	<0.1	<0.05	10	1.3	<0.2
5200E+1125	Soil	20	0.40	64	0.079	3	3.20	0.007	0.04	0.3	0.16	4.1	0.1	<0.05	11	0.8	<0.2
5200E+1150	Soil	22	0.39	53	0.119	3	4.81	0.007	0.03	0.4	0.11	6.9	0.2	<0.05	10	1.7	<0.2
5200E+1175	Soil	3	0.03	27	0.093	2	0.38	0.011	0.02	<0.1	0.04	0.7	<0.1	<0.05	7	<0.5	<0.2
5200E+1200	Soil	21	0.27	47	0.119	3	4.64	0.010	0.03	0.3	0.13	5.2	<0.1	<0.05	12	2.7	<0.2
5200E+1225	Soil	25	0.38	63	0.096	4	4.05	0.008	0.05	0.3	0.11	5.1	0.1	<0.05	11	1.7	<0.2
5200E+1250	Soil	30	0.54	104	0.098	3	4.53	0.008	0.06	0.3	0.15	6.2	0.1	<0.05	11	2.1	<0.2
5200E+1275	Soil	17	0.12	43	0.065	3	3.37	0.009	0.03	0.3	0.24	6.4	0.1	<0.05	9	13.3	<0.2
5200E+1300	Soil	19	0.60	120	0.090	3	2.55	0.014	0.07	0.2	0.04	4.4	0.1	<0.05	12	1.2	<0.2
5300E+00	Soil	11	0.29	115	0.003	3	1.70	0.006	0.09	0.2	0.15	4.2	0.4	<0.05	7	2.0	<0.2
5300E+25	Soil	13	0.62	159	0.003	4	2.27	0.007	0.11	0.2	0.09	7.3	0.5	<0.05	8	5.3	<0.2
5300E+50	Soil	12	0.20	92	0.036	3	1.71	0.010	0.04	0.1	0.09	3.1	0.3	<0.05	10	1.6	<0.2
5300E+75	Soil	20	0.45	75	0.065	6	2.81	0.011	0.04	0.2	0.10	4.9	0.2	<0.05	10	2.1	<0.2
5300E+100	Soil	22	0.37	53	0.105	4	3.26	0.009	0.04	0.3	0.09	5.9	0.1	<0.05	13	1.6	<0.2
5300E+125	Soil	32	0.47	39	0.072	7	3.00	0.012	0.05	0.1	0.06	6.5	0.2	0.07	10	4.8	<0.2
5300E+175	Soil	21	0.20	33	0.055	8	2.62	0.017	0.05	0.1	0.08	3.0	0.2	0.12	8	3.4	<0.2
5300E+200	Soil	22	0.37	27	0.043	6	2.44	0.013	0.04	0.1	0.06	3.3	0.1	0.14	8	8.0	<0.2
5300E+225	Soil	27	0.30	33	0.044	6	2.47	0.016	0.04	0.3	0.07	2.9	0.2	0.10	9	4.3	<0.2
5300E+250	Soil	36	0.44	48	0.068	6	3.43	0.011	0.07	0.2	0.08	6.0	0.2	0.06	11	4.3	<0.2
5300E+275	Soil	27	0.30	50	0.041	8	2.92	0.014	0.03	0.2	0.13	4.3	0.1	0.06	8	5.5	<0.2
5300E+300	Soil	29	0.50	58	0.046	7	3.09	0.013	0.06	0.1	0.10	5.5	0.4	<0.05	10	4.5	<0.2
5300E+325	Soil	25	0.47	61	0.090	6	3.76	0.010	0.05	0.3	0.10	6.4	0.2	<0.05	11	1.1	<0.2
5300E+350	Soil	22	0.51	55	0.082	5	2.48	0.010	0.04	0.2	0.09	6.0	0.2	<0.05	10	1.0	<0.2
5300E+375	Soil	23	0.32	53	0.040	4	2.07	0.007	0.03	0.2	0.12	4.9	0.3	<0.05	11	1.5	<0.2
5300E+400	Soil	28	0.27	59	0.108	5	2.84	0.012	0.04	0.2	0.16	4.6	0.2	<0.05	11	1.3	<0.2
5300E+425	Soil	12	0.16	33	0.049	3	1.38	0.010	0.03	0.1	0.07	3.0	0.2	<0.05	10	<0.5	<0.2

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Client: **Imperial Metals Corporation**
200 - 580 Hornby St.
Vancouver BC V6C 3B6 CANADA

Project: Giant Copper
Report Date: July 30, 2015

CERTIFICATE OF ANALYSIS VAN15001736.1

		Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
5300E+450	Soil		3.5	34.4	42.3	341	0.9	13.1	9.3	830	5.41	48.0	2.4	0.8	6	1.2	5.9	2.3	104	0.08	0.149	4
5300E+475	Soil		2.7	42.7	64.7	297	0.6	10.8	7.9	436	3.78	67.1	3.3	0.9	7	0.9	6.3	2.0	85	0.09	0.080	4
5300E+500	Soil		4.6	41.2	51.0	216	1.0	12.5	5.8	380	4.51	74.6	4.7	0.6	7	1.0	5.9	3.3	95	0.09	0.076	4
5300E+525	Soil		6.7	20.3	33.0	117	0.6	7.2	3.8	266	3.17	70.6	10.9	0.6	7	0.7	3.6	2.0	91	0.12	0.029	3
5300E+550	Soil		6.3	26.2	32.6	149	0.6	8.3	4.9	275	3.28	83.4	14.4	1.0	9	1.1	3.3	1.3	68	0.17	0.051	3
5300E+575	Soil		7.3	69.0	75.1	420	0.8	33.6	15.7	1035	4.77	547.8	12.6	0.9	30	10.0	7.7	2.9	104	0.92	0.070	9
5300E+600	Soil		4.8	23.4	37.8	143	0.5	8.2	5.1	559	3.50	46.2	3.2	0.6	7	0.8	3.6	1.8	74	0.06	0.076	3
5300E+625	Soil		3.6	18.7	39.1	144	1.0	5.7	4.5	328	3.73	56.0	5.6	0.8	5	0.4	5.0	2.0	80	0.06	0.057	2
5300E+650	Soil		4.3	73.9	94.5	471	0.6	18.9	11.5	733	5.38	182.0	31.5	1.0	8	1.6	13.9	6.3	96	0.09	0.110	4
5300E+675	Soil		3.5	27.5	53.8	165	0.7	6.9	6.4	503	4.01	74.8	3.9	0.8	6	0.8	6.0	2.7	81	0.06	0.101	3
5300E+700	Soil		3.2	31.4	44.0	228	0.7	7.7	8.6	727	3.78	75.9	8.8	0.7	8	1.4	5.4	1.9	81	0.11	0.102	3
5300E+725	Soil		3.2	25.1	40.5	123	0.4	6.3	7.4	986	3.57	62.8	5.7	0.4	8	1.4	3.0	1.4	79	0.09	0.081	2
5300E+750	Soil		3.8	28.2	40.2	93	0.3	5.8	5.9	1438	2.36	20.3	1.3	0.3	7	1.0	1.5	0.8	56	0.07	0.051	3
5300E+775	Soil		9.5	29.3	24.1	195	0.6	12.4	6.4	337	3.18	65.7	1.8	0.7	9	1.0	2.2	1.0	89	0.13	0.048	3
5300E+800	Soil		3.8	15.0	24.6	163	0.4	7.8	4.8	302	2.77	52.3	<0.5	0.8	7	0.4	1.4	1.2	75	0.09	0.042	2
5300E+825	Soil		11.0	44.0	29.6	187	1.5	13.6	7.5	818	2.92	110.4	23.1	0.3	11	1.2	4.2	2.0	80	0.17	0.052	4
5300E+850	Soil		4.5	25.8	20.0	107	0.2	9.7	4.2	191	3.06	35.9	3.3	0.7	7	0.7	1.7	1.0	77	0.09	0.037	3
5300E+875	Soil		6.3	25.1	22.6	38	0.4	4.8	2.5	240	1.39	9.5	1.3	0.3	8	0.2	0.5	0.7	72	0.11	0.041	2
5300E+900	Soil		11.2	75.0	39.5	190	1.8	11.6	9.3	732	3.61	191.5	26.5	0.9	8	1.9	2.0	6.6	65	0.12	0.106	3
5300E+925	Soil		3.5	73.1	41.0	41	1.6	2.8	3.0	404	4.70	205.0	5.3	0.4	11	0.1	3.0	3.1	66	0.09	0.073	1
5300E+950	Soil		2.7	70.0	9.7	52	0.6	4.4	4.4	138	5.32	36.0	1.0	0.6	10	0.1	0.9	1.1	121	0.10	0.076	2
5300E+975	Soil		2.7	20.0	8.1	27	0.4	2.3	2.2	76	2.71	14.1	1.2	0.4	6	<0.1	0.5	0.8	88	0.07	0.026	2
5300E+1000	Soil		7.1	103.2	29.3	164	0.5	11.6	14.5	290	4.03	230.1	3.8	0.8	22	0.8	1.1	2.7	68	0.14	0.103	5
5300E+1025	Soil		2.2	8.1	9.4	12	0.1	1.2	1.0	48	1.18	2.6	0.8	0.4	6	<0.1	0.5	1.0	77	0.07	0.018	2
5300E+1050	Soil		19.3	172.7	35.0	47	1.2	3.8	15.5	629	8.31	864.1	1.9	0.2	9	0.8	1.0	33.9	82	0.08	0.137	4
5300E+1075	Soil		5.7	186.2	13.8	54	0.7	7.2	6.2	296	5.26	450.2	8.7	0.6	8	0.3	1.7	4.1	73	0.06	0.120	3
5300E+1100	Soil		1.6	63.6	8.7	33	0.5	3.6	3.1	114	3.51	128.0	6.5	0.8	6	<0.1	0.8	1.4	87	0.06	0.058	3
5300E+1125	Soil		1.6	98.8	13.5	37	0.7	4.3	3.3	190	5.40	14.2	7.2	1.4	8	0.1	1.3	0.9	57	0.07	0.102	3
5300E+1150	Soil		1.8	42.6	11.1	19	0.2	2.6	3.6	1136	3.79	55.7	12.2	0.1	9	0.1	0.5	0.6	60	0.06	0.131	3
5300E+1175	Soil		1.8	93.6	7.0	29	0.2	2.9	3.2	348	6.54	25.3	13.2	1.0	7	0.1	0.9	0.7	88	0.06	0.148	4

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CERTIFICATE OF ANALYSIS VAN15001736.1

	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
5300E+450	Soil	23	0.37	56	0.038	5	3.46	0.008	0.05	0.2	0.12	5.9	0.2	<0.05	11	1.2	0.2
5300E+475	Soil	16	0.26	37	0.040	4	2.80	0.015	0.03	0.1	0.09	6.6	0.1	<0.05	8	0.8	<0.2
5300E+500	Soil	21	0.34	54	0.034	4	2.66	0.008	0.05	0.2	0.17	5.6	0.2	<0.05	9	1.8	0.4
5300E+525	Soil	13	0.20	48	0.049	3	1.55	0.009	0.03	0.3	0.07	3.6	<0.1	<0.05	10	0.6	0.2
5300E+550	Soil	15	0.23	45	0.088	4	3.48	0.011	0.04	0.4	0.12	3.9	<0.1	<0.05	12	1.1	<0.2
5300E+575	Soil	76	0.64	48	0.080	7	3.60	0.021	0.07	0.4	0.13	9.5	0.2	<0.05	11	4.3	0.3
5300E+600	Soil	15	0.16	48	0.073	3	2.70	0.011	0.03	0.2	0.12	3.3	0.1	<0.05	10	0.8	0.2
5300E+625	Soil	11	0.12	31	0.060	4	2.53	0.012	0.03	0.2	0.10	3.6	0.1	<0.05	9	1.0	<0.2
5300E+650	Soil	23	0.48	60	0.049	6	3.75	0.008	0.05	0.3	0.13	7.7	0.2	<0.05	9	2.4	0.9
5300E+675	Soil	13	0.17	34	0.089	3	2.62	0.011	0.04	0.2	0.11	3.6	0.1	<0.05	10	0.9	<0.2
5300E+700	Soil	15	0.25	40	0.058	4	3.14	0.010	0.04	0.5	0.15	4.7	0.1	<0.05	10	1.4	0.2
5300E+725	Soil	13	0.13	35	0.082	3	2.10	0.011	0.04	0.4	0.13	2.6	0.1	<0.05	11	0.8	<0.2
5300E+750	Soil	9	0.11	37	0.077	2	1.48	0.011	0.02	0.4	0.13	2.7	0.1	<0.05	9	<0.5	<0.2
5300E+775	Soil	23	0.40	64	0.084	3	2.77	0.010	0.04	0.4	0.09	4.6	<0.1	<0.05	12	0.7	<0.2
5300E+800	Soil	13	0.16	37	0.088	3	3.05	0.013	0.03	0.4	0.10	3.3	<0.1	<0.05	11	<0.5	<0.2
5300E+825	Soil	17	0.41	64	0.063	4	2.02	0.010	0.05	0.6	0.12	4.7	0.2	<0.05	10	0.8	<0.2
5300E+850	Soil	16	0.30	48	0.095	2	2.37	0.010	0.03	0.5	0.08	3.8	<0.1	<0.05	11	<0.5	<0.2
5300E+875	Soil	10	0.23	27	0.073	2	1.55	0.017	0.03	0.6	0.11	2.9	<0.1	<0.05	13	<0.5	<0.2
5300E+900	Soil	13	0.27	36	0.089	3	4.69	0.013	0.03	1.3	0.14	3.7	0.1	<0.05	12	1.8	0.3
5300E+925	Soil	6	0.09	21	0.080	1	1.15	0.015	0.03	0.7	0.14	1.5	0.1	<0.05	9	1.4	0.4
5300E+950	Soil	12	0.40	45	0.192	2	2.34	0.027	0.06	0.4	0.08	3.7	0.1	<0.05	12	1.1	0.2
5300E+975	Soil	8	0.23	27	0.180	1	1.10	0.018	0.03	0.2	0.05	2.7	<0.1	<0.05	11	<0.5	<0.2
5300E+1000	Soil	12	0.31	48	0.088	3	3.25	0.013	0.05	1.5	0.12	4.7	0.1	0.06	10	1.7	0.6
5300E+1025	Soil	4	0.10	18	0.192	1	0.42	0.012	0.03	0.1	0.02	1.4	<0.1	<0.05	10	<0.5	<0.2
5300E+1050	Soil	10	0.10	37	0.064	3	1.64	0.010	0.06	1.3	0.18	2.2	0.1	<0.05	12	1.8	5.8
5300E+1075	Soil	44	0.41	34	0.082	2	3.36	0.009	0.03	1.0	0.14	4.7	0.1	<0.05	9	2.8	0.9
5300E+1100	Soil	11	0.36	34	0.149	2	2.67	0.016	0.03	0.2	0.08	4.9	<0.1	<0.05	11	1.3	<0.2
5300E+1125	Soil	11	0.17	31	0.126	2	4.24	0.013	0.03	0.3	0.14	3.2	<0.1	<0.05	9	1.8	<0.2
5300E+1150	Soil	7	0.16	35	0.073	2	1.29	0.012	0.04	0.1	0.27	1.9	0.2	<0.05	9	1.0	<0.2
5300E+1175	Soil	10	0.38	53	0.181	2	3.40	0.016	0.06	2.3	0.11	5.0	0.1	<0.05	10	2.4	<0.2

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	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
5300E+1200	Soil	3.1	36.2	15.4	44	0.2	5.6	8.2	299	3.32	26.6	4.4	0.5	6	0.4	1.0	0.7	68	0.07	0.086	5
5300E+1225	Soil	3.0	54.9	13.2	27	0.4	4.4	1.7	76	3.73	24.0	5.7	0.7	6	0.3	0.8	0.7	68	0.06	0.096	3
5300E+1250	Soil	3.5	61.9	12.0	37	0.6	4.5	2.8	92	3.39	17.7	12.4	1.5	4	0.3	0.8	0.6	56	0.05	0.069	5
5400E+00	Soil	4.4	39.0	14.4	282	0.2	13.4	18.4	1659	4.09	11.8	1.1	<0.1	29	3.3	3.3	0.2	73	0.54	0.097	6
5400E+25	Soil	4.2	30.3	22.6	219	0.4	14.8	16.4	1552	4.86	14.9	0.8	0.1	26	1.1	3.1	0.3	108	0.13	0.088	4
5400E+50	Soil	3.3	25.3	10.4	108	0.4	6.2	3.8	281	4.20	8.8	<0.5	0.2	17	0.6	1.8	0.3	96	0.08	0.071	4
5400E+75	Soil	3.8	25.0	15.8	285	0.3	12.4	18.2	2746	4.22	24.7	0.8	<0.1	19	3.5	3.1	0.3	81	0.35	0.222	6
5400E+100	Soil	2.0	18.8	13.6	192	0.3	7.9	16.4	3852	3.57	7.5	1.1	<0.1	18	2.7	1.2	0.2	79	0.45	0.281	3
5400E+125	Soil	2.3	18.4	18.8	147	0.2	8.1	9.0	1911	2.70	27.9	3.3	<0.1	18	2.3	1.7	0.6	65	0.37	0.180	4
5400E+150	Soil	1.8	27.4	29.8	169	0.2	11.3	9.7	1352	2.84	64.0	4.6	<0.1	29	2.5	3.7	0.8	72	0.91	0.168	5
5400E+175	Soil	2.8	20.8	25.5	100	0.3	10.1	5.2	361	3.53	27.6	3.9	0.7	11	0.4	2.6	0.9	83	0.12	0.040	3
5400E+200	Soil	2.3	27.3	38.4	176	0.3	12.3	11.2	1509	2.41	61.1	1.6	<0.1	29	2.9	3.8	0.9	56	1.20	0.175	5
5400E+225	Soil	2.8	32.4	24.2	135	0.4	11.8	7.7	609	3.33	26.2	<0.5	0.3	8	1.5	2.6	0.7	67	0.13	0.091	4
5400E+250	Soil	3.1	23.3	19.2	136	0.4	8.7	6.9	1390	1.91	84.8	2.2	<0.1	38	4.2	3.2	0.6	55	1.65	0.084	4
5400E+275	Soil	1.7	10.5	13.1	49	0.4	4.0	2.4	82	1.56	8.0	<0.5	0.3	5	0.2	1.9	0.7	60	0.07	0.020	3
5400E+300	Soil	4.0	15.7	14.8	69	0.5	5.2	3.4	1314	1.22	74.6	1.7	<0.1	30	2.9	2.1	0.4	33	1.39	0.074	4
5400E+325	Soil	5.2	29.6	32.4	177	0.5	12.2	6.7	351	4.11	98.3	7.3	1.2	7	0.6	2.9	1.1	89	0.08	0.054	3
5400E+350	Soil	5.2	15.1	20.2	82	0.4	7.0	3.3	156	4.01	39.7	1.6	1.1	9	0.7	2.4	0.9	123	0.11	0.029	3
5400E+375	Soil	7.4	42.9	28.3	149	0.6	15.8	10.5	419	5.15	79.8	4.6	1.4	8	1.0	5.3	1.4	123	0.13	0.082	8
5400E+400	Soil	3.3	15.4	13.8	57	0.4	5.8	3.4	171	4.63	17.5	3.9	0.9	6	0.5	1.4	0.9	123	0.04	0.045	3
5400E+425	Soil	4.1	38.1	36.6	201	0.4	14.5	10.5	1389	4.16	70.3	3.3	0.8	12	2.2	4.2	1.4	98	0.18	0.075	5
5400E+450	Soil	4.4	27.9	33.9	128	0.4	8.4	6.8	614	4.80	30.0	2.1	0.8	6	0.9	4.1	1.4	101	0.05	0.075	3
5400E+475	Soil	3.8	46.3	55.4	195	0.4	10.3	5.0	300	4.51	65.2	4.1	0.6	6	0.8	7.0	2.9	111	0.04	0.061	5
5400E+500	Soil	3.6	51.3	50.3	307	0.7	18.1	8.6	414	4.56	63.6	35.4	0.9	7	1.1	7.3	3.3	98	0.08	0.099	5
5400E+525	Soil	6.5	29.2	40.2	227	0.5	13.0	5.5	295	3.46	102.1	4.9	0.8	10	0.8	4.1	3.8	101	0.09	0.044	3
5400E+550	Soil	2.8	15.4	23.9	77	1.0	5.8	4.0	238	4.04	26.2	1.0	0.7	6	0.6	2.7	1.0	103	0.05	0.035	2
5400E+575	Soil	4.1	32.1	47.5	134	0.5	21.5	7.1	329	3.98	70.9	3.2	1.1	8	0.9	3.5	2.4	90	0.09	0.060	3
5400E+600	Soil	5.7	33.5	57.1	176	0.9	16.3	10.2	841	4.99	46.1	16.4	0.9	10	0.9	6.1	3.2	109	0.10	0.049	4
5400E+625	Soil	5.4	31.5	53.6	214	0.7	7.3	5.3	296	5.24	74.0	13.5	1.1	6	0.8	9.3	3.8	100	0.05	0.072	4
5400E+650	Soil	4.7	58.3	108.3	405	1.0	13.5	12.5	1080	5.12	185.5	15.4	0.9	8	1.5	21.0	7.1	105	0.09	0.060	4

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Project: Giant Copper
Report Date: July 30, 2015

CERTIFICATE OF ANALYSIS VAN15001736.1

	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
5300E+1200	Soil	13	0.19	36	0.086	2	2.92	0.009	0.03	0.2	0.12	4.0	<0.1	<0.05	11	1.2	<0.2
5300E+1225	Soil	15	0.13	26	0.087	2	3.68	0.008	0.02	0.3	0.21	4.1	<0.1	<0.05	10	1.9	<0.2
5300E+1250	Soil	12	0.11	26	0.108	1	4.02	0.012	0.02	0.3	0.21	3.9	<0.1	<0.05	10	1.2	<0.2
5400E+00	Soil	18	0.51	80	0.049	4	2.32	0.021	0.04	<0.1	0.08	3.5	0.3	<0.05	7	3.7	<0.2
5400E+25	Soil	43	0.88	68	0.076	5	3.31	0.011	0.05	<0.1	0.10	5.1	0.2	<0.05	11	2.5	<0.2
5400E+50	Soil	21	0.40	42	0.088	4	3.08	0.011	0.03	0.1	0.10	3.8	0.2	<0.05	11	1.4	<0.2
5400E+75	Soil	32	0.61	53	0.022	5	2.63	0.010	0.08	<0.1	0.08	2.1	0.3	0.12	8	4.0	<0.2
5400E+100	Soil	14	0.31	142	0.030	5	1.67	0.010	0.10	<0.1	0.05	1.1	0.2	0.10	9	0.9	<0.2
5400E+125	Soil	16	0.23	70	0.029	4	1.65	0.012	0.09	<0.1	0.05	0.9	0.1	0.08	9	1.1	<0.2
5400E+150	Soil	23	0.35	217	0.041	6	2.05	0.009	0.07	0.3	0.06	2.1	0.1	0.13	8	2.2	<0.2
5400E+175	Soil	18	0.25	74	0.095	3	2.00	0.011	0.04	0.2	0.08	3.7	0.1	<0.05	11	0.9	<0.2
5400E+200	Soil	23	0.39	40	0.026	6	1.95	0.008	0.06	0.3	0.08	1.7	0.1	0.13	7	2.7	<0.2
5400E+225	Soil	19	0.33	48	0.079	4	3.15	0.009	0.04	0.3	0.15	4.1	0.1	<0.05	9	1.4	<0.2
5400E+250	Soil	24	0.30	35	0.021	9	1.37	0.009	0.04	0.1	0.08	1.9	0.2	0.06	5	5.3	<0.2
5400E+275	Soil	8	0.08	30	0.063	2	0.75	0.010	0.02	0.1	0.04	1.8	<0.1	<0.05	8	<0.5	<0.2
5400E+300	Soil	17	0.12	32	0.023	4	1.18	0.011	0.05	0.1	0.20	1.4	0.2	0.08	4	5.7	<0.2
5400E+325	Soil	26	0.30	44	0.082	3	3.72	0.010	0.04	0.2	0.12	5.1	0.2	<0.05	11	1.3	<0.2
5400E+350	Soil	18	0.14	47	0.131	2	2.68	0.009	0.03	0.3	0.11	3.5	<0.1	<0.05	17	0.6	<0.2
5400E+375	Soil	37	0.31	51	0.131	5	3.82	0.011	0.06	0.4	0.14	7.4	0.2	<0.05	11	2.0	<0.2
5400E+400	Soil	17	0.10	40	0.169	3	1.80	0.011	0.03	0.3	0.09	2.7	0.1	<0.05	15	<0.5	<0.2
5400E+425	Soil	21	0.38	64	0.100	4	3.19	0.011	0.04	0.3	0.12	5.4	0.3	<0.05	10	1.8	<0.2
5400E+450	Soil	16	0.21	40	0.105	4	2.34	0.012	0.04	0.3	0.14	3.7	0.2	<0.05	11	1.0	<0.2
5400E+475	Soil	21	0.23	50	0.022	5	1.97	0.010	0.04	0.2	0.08	5.5	0.3	<0.05	10	1.2	<0.2
5400E+500	Soil	25	0.44	54	0.076	6	4.74	0.009	0.05	0.3	0.10	7.4	0.2	<0.05	9	1.4	0.3
5400E+525	Soil	20	0.31	52	0.066	4	2.43	0.011	0.04	0.3	0.05	4.4	0.2	<0.05	12	0.7	0.5
5400E+550	Soil	23	0.11	29	0.138	2	2.32	0.014	0.02	0.3	0.10	2.5	<0.1	<0.05	11	0.7	<0.2
5400E+575	Soil	57	0.34	46	0.114	3	3.06	0.015	0.03	0.3	0.10	4.2	0.1	<0.05	10	1.0	0.3
5400E+600	Soil	30	0.35	69	0.136	4	2.28	0.013	0.05	0.3	0.09	5.1	0.2	<0.05	13	0.9	0.4
5400E+625	Soil	12	0.18	38	0.089	4	2.90	0.012	0.03	0.4	0.11	4.3	0.1	<0.05	13	1.2	0.2
5400E+650	Soil	20	0.39	76	0.060	5	2.79	0.012	0.05	0.4	0.08	6.7	0.3	<0.05	11	1.6	0.7

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Project: Giant Copper
Report Date: July 30, 2015

CERTIFICATE OF ANALYSIS VAN15001736.1

	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
5400E+675	Soil	3.2	24.1	58.2	176	0.4	6.3	4.1	303	2.76	41.2	13.7	0.4	13	0.6	6.3	1.8	88	0.10	0.041	3
5400E+700	Soil	0.8	4.5	16.5	38	0.3	1.9	1.8	87	1.43	3.5	2.2	0.3	4	0.1	0.6	0.5	43	0.04	0.025	2
5400E+725	Soil	1.5	13.5	27.5	72	0.2	3.5	2.4	266	1.52	11.7	3.4	0.3	11	0.4	1.1	0.7	43	0.16	0.072	2
5400E+800	Soil	1.9	9.1	35.4	99	0.4	4.5	3.0	119	2.59	13.6	1.0	1.1	7	0.6	0.7	0.8	76	0.07	0.086	2
5400E+825	Soil	0.6	6.8	27.6	43	0.3	2.4	1.7	144	0.77	1.3	1.8	0.2	6	0.2	0.4	0.3	30	0.08	0.026	2
5400E+850	Soil	3.4	40.0	30.2	179	1.5	10.9	6.4	256	3.24	164.5	11.7	0.9	8	0.7	5.7	3.7	77	0.11	0.058	3
5400E+875	Soil	1.7	5.0	8.5	34	0.3	2.6	2.5	89	1.87	16.7	2.2	0.3	5	0.1	0.4	0.4	69	0.04	0.024	2
5400E+900	Soil	1.7	5.7	10.3	41	0.7	4.6	2.4	156	1.88	10.6	2.6	0.4	6	0.2	0.4	0.3	57	0.06	0.029	2
5400E+925	Soil	1.6	8.4	17.7	72	0.4	3.5	3.3	98	2.48	33.1	12.8	0.8	6	0.2	1.1	0.7	77	0.05	0.034	3
5400E+950	Soil	1.6	18.4	15.7	61	0.5	4.4	2.8	95	1.68	65.9	33.1	0.2	7	0.3	1.8	1.0	51	0.05	0.030	3
5400E+975	Soil	2.4	20.9	32.7	116	0.5	8.0	5.7	387	3.01	37.5	5.2	0.9	7	0.4	1.7	0.9	68	0.09	0.056	3
5400E+1000	Soil	5.4	72.3	58.0	245	1.6	14.4	8.3	362	5.94	98.4	6.9	1.9	11	0.9	3.5	2.9	114	0.11	0.091	7
5400E+1025	Soil	5.9	128.2	106.0	123	1.2	6.5	5.6	373	6.26	45.0	18.4	1.0	8	0.3	2.8	3.8	79	0.07	0.117	4
5400E+1050	Soil	4.3	74.7	20.4	99	1.1	10.1	8.8	372	4.17	38.2	2.3	1.4	8	0.8	1.4	1.7	73	0.07	0.091	4
5400E+1075	Soil	3.4	106.1	28.4	47	2.1	5.0	5.6	233	5.06	108.0	290.4	1.1	7	0.2	1.7	7.3	62	0.06	0.104	3
5400E+1100	Soil	2.8	172.7	22.6	36	0.5	4.8	27.6	675	3.25	27.8	6.2	0.4	9	1.3	0.8	1.2	58	0.08	0.109	6
5400E+1125	Soil	2.4	72.8	18.5	30	0.5	4.3	2.1	189	3.78	44.7	5.6	0.8	7	0.4	1.4	3.9	60	0.06	0.152	2
5400E+1150	Soil	6.8	179.8	28.3	94	0.6	12.2	6.2	321	3.91	508.3	54.3	1.8	9	0.6	1.7	3.4	56	0.09	0.126	5
5400E+1175	Soil	4.8	80.2	16.7	25	0.5	6.2	2.5	88	2.53	22.1	38.5	0.2	7	0.5	0.6	1.5	58	0.07	0.095	3
5400E+1200	Soil	4.8	61.6	26.9	41	0.4	3.5	8.3	1377	3.19	57.6	39.8	0.5	5	1.2	1.9	1.1	59	0.04	0.130	2
5400E+1225	Soil	3.3	134.1	20.6	35	1.2	3.7	17.5	2513	7.14	12.3	11.9	<0.1	7	0.8	1.8	1.7	96	0.05	0.244	5
5400E+1250	Soil	5.1	128.6	23.9	76	0.5	11.4	7.3	331	3.54	47.6	13.1	1.0	8	0.6	1.8	1.1	70	0.10	0.088	6
5400E+1275	Soil	1.6	13.4	8.7	19	0.3	2.3	1.7	59	1.28	10.0	23.9	0.3	7	0.2	0.7	0.6	54	0.04	0.022	3
5400E+1300	Soil	7.4	62.4	24.8	82	0.3	6.9	5.2	159	4.16	115.3	336.8	1.0	10	0.4	2.4	7.5	92	0.09	0.071	5
5500E+00	Soil	4.2	31.1	14.5	268	0.1	8.8	10.6	838	4.71	16.8	0.8	0.1	40	1.4	4.1	0.3	96	0.30	0.113	9
5500E+25	Soil	3.3	33.5	15.0	447	0.3	14.6	16.5	758	5.20	20.3	1.6	0.4	13	2.1	3.9	0.4	78	0.18	0.073	4
5500E+50	Soil	3.8	20.5	13.8	240	0.2	8.6	14.0	1879	3.64	14.9	0.8	0.1	13	8.0	2.6	0.3	64	0.21	0.151	8
5500E+75	Soil	1.3	11.1	10.4	70	0.1	4.2	6.0	1242	1.54	3.8	0.6	<0.1	8	0.4	0.7	0.2	53	0.24	0.108	3
5500E+150	Soil	1.1	20.6	9.6	84	0.2	6.1	3.0	301	1.67	4.6	<0.5	<0.1	5	0.6	0.8	0.2	55	0.10	0.146	4
5500E+175	Soil	1.0	17.8	12.5	97	0.2	6.8	4.5	420	1.58	3.6	1.2	<0.1	6	0.9	1.2	0.2	42	0.14	0.103	3

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	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
5400E+675	Soil	12	0.22	35	0.065	4	1.55	0.013	0.04	0.6	0.08	4.0	0.1	<0.05	9	0.6	<0.2
5400E+700	Soil	5	0.05	15	0.079	2	0.59	0.016	0.02	0.1	0.04	1.1	<0.1	<0.05	7	<0.5	<0.2
5400E+725	Soil	7	0.09	36	0.088	3	1.39	0.014	0.04	0.3	0.19	1.6	<0.1	<0.05	6	0.6	<0.2
5400E+800	Soil	8	0.09	32	0.176	2	2.87	0.017	0.02	0.3	0.06	2.4	<0.1	<0.05	12	<0.5	<0.2
5400E+825	Soil	5	0.07	22	0.057	2	0.49	0.015	0.03	<0.1	0.03	1.2	<0.1	<0.05	4	<0.5	<0.2
5400E+850	Soil	15	0.31	43	0.105	4	2.72	0.013	0.04	1.0	0.09	4.1	0.1	<0.05	9	1.0	<0.2
5400E+875	Soil	7	0.07	12	0.113	1	0.56	0.014	0.02	0.1	0.03	1.3	<0.1	<0.05	7	<0.5	<0.2
5400E+900	Soil	20	0.12	18	0.121	1	0.94	0.017	0.03	0.2	0.05	1.3	<0.1	<0.05	8	<0.5	<0.2
5400E+925	Soil	10	0.08	23	0.096	1	1.83	0.013	0.02	0.2	0.05	1.9	<0.1	<0.05	9	<0.5	<0.2
5400E+950	Soil	8	0.11	31	0.067	2	0.99	0.010	0.02	0.3	0.06	1.9	<0.1	<0.05	6	<0.5	<0.2
5400E+975	Soil	13	0.26	31	0.123	2	2.17	0.012	0.03	0.3	0.09	3.1	0.1	<0.05	10	0.7	<0.2
5400E+1000	Soil	26	0.45	63	0.139	4	4.65	0.009	0.04	0.8	0.13	7.3	0.2	<0.05	16	2.2	<0.2
5400E+1025	Soil	15	0.31	27	0.094	3	3.18	0.010	0.03	0.5	0.14	4.7	0.1	<0.05	11	4.6	0.4
5400E+1050	Soil	20	0.14	33	0.096	3	5.50	0.010	0.02	0.4	0.19	3.8	<0.1	<0.05	10	2.8	<0.2
5400E+1075	Soil	14	0.13	24	0.109	2	3.47	0.014	0.02	0.6	0.15	3.4	<0.1	<0.05	10	3.9	0.4
5400E+1100	Soil	11	0.09	27	0.080	3	3.94	0.014	0.02	0.3	0.13	3.9	<0.1	<0.05	10	3.7	<0.2
5400E+1125	Soil	13	0.09	18	0.078	2	5.16	0.010	0.02	0.4	0.19	2.8	<0.1	<0.05	9	4.0	<0.2
5400E+1150	Soil	19	0.30	28	0.092	4	8.35	0.006	0.03	0.7	0.21	6.3	0.1	<0.05	10	3.9	0.4
5400E+1175	Soil	8	0.04	14	0.082	2	2.68	0.012	0.02	0.3	0.13	2.4	<0.1	<0.05	9	1.7	<0.2
5400E+1200	Soil	10	0.07	15	0.083	2	3.06	0.011	0.02	0.3	0.21	2.5	<0.1	<0.05	9	2.2	<0.2
5400E+1225	Soil	10	0.05	20	0.029	2	2.37	0.009	0.02	0.3	0.26	2.8	<0.1	<0.05	7	4.4	0.3
5400E+1250	Soil	16	0.23	35	0.105	3	4.87	0.009	0.03	0.5	0.13	5.1	<0.1	<0.05	11	3.2	<0.2
5400E+1275	Soil	6	0.07	30	0.085	1	0.54	0.012	0.02	0.2	0.05	1.4	<0.1	<0.05	6	<0.5	<0.2
5400E+1300	Soil	17	0.24	55	0.094	3	2.54	0.011	0.03	1.3	0.08	4.0	<0.1	<0.05	13	1.6	0.3
5500E+00	Soil	16	0.68	75	0.062	7	3.46	0.023	0.07	0.1	0.12	8.4	0.3	<0.05	11	3.2	<0.2
5500E+25	Soil	24	0.65	54	0.099	6	3.93	0.010	0.07	0.2	0.14	8.4	0.3	<0.05	10	2.2	<0.2
5500E+50	Soil	18	0.26	40	0.039	6	2.48	0.010	0.06	<0.1	0.06	2.7	0.2	0.09	8	3.0	<0.2
5500E+75	Soil	9	0.10	73	0.045	4	0.71	0.010	0.05	<0.1	0.06	1.2	0.2	0.05	5	0.6	<0.2
5500E+150	Soil	13	0.16	46	0.029	3	1.43	0.010	0.04	<0.1	0.08	1.2	0.2	0.06	7	0.9	<0.2
5500E+175	Soil	11	0.16	69	0.031	3	1.07	0.009	0.05	<0.1	0.09	1.3	0.2	<0.05	5	0.6	<0.2

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Client: **Imperial Metals Corporation**
200 - 580 Hornby St.
Vancouver BC V6C 3B6 CANADA

Project: Giant Copper
Report Date: July 30, 2015

CERTIFICATE OF ANALYSIS VAN15001736.1

	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
5500E+200	Soil	0.8	15.0	8.9	52	0.3	7.2	3.1	414	1.77	3.4	<0.5	<0.1	8	0.7	0.4	0.2	44	0.15	0.134	3
5500E+225	Soil	2.1	16.7	17.1	114	0.1	9.5	8.6	2122	3.43	11.3	1.5	0.4	6	0.8	2.3	0.5	93	0.07	0.065	4
5500E+250	Soil	2.3	30.4	20.0	96	0.2	9.6	16.0	2791	3.62	14.0	1.0	0.2	7	0.6	3.3	0.5	81	0.10	0.082	4
5500E+275	Soil	1.4	15.7	11.1	59	0.3	6.1	3.4	184	2.72	12.1	3.4	0.3	6	0.4	1.5	0.5	73	0.07	0.049	3
5500E+300	Soil	1.9	22.7	25.1	139	1.4	8.4	6.7	725	3.13	19.9	1.6	0.8	7	0.8	1.9	0.9	69	0.09	0.077	3
5500E+325	Soil	1.7	13.6	20.4	70	0.9	5.5	3.6	178	3.02	17.8	4.4	0.5	4	0.5	3.0	1.0	90	0.05	0.041	2
5500E+350	Soil	2.0	14.3	15.7	74	0.6	6.8	3.1	129	2.94	21.7	1.5	0.5	6	0.5	2.3	1.1	84	0.07	0.047	3
5500E+375	Soil	2.7	14.9	16.4	87	0.2	7.8	4.0	218	4.74	21.6	1.8	0.8	6	0.3	2.3	0.9	122	0.05	0.050	3
5500E+400	Soil	1.6	17.7	17.0	72	0.2	5.9	6.5	340	3.61	14.4	2.7	1.2	5	0.4	1.3	0.6	80	0.06	0.070	2
5500E+425	Soil	1.1	7.9	36.0	28	0.3	2.3	3.2	613	1.61	3.3	<0.5	0.3	5	0.2	0.7	0.3	56	0.06	0.037	2
5500E+450	Soil	2.3	16.4	21.8	80	0.5	5.6	4.3	206	3.52	12.1	2.7	0.6	5	0.4	2.1	0.8	98	0.06	0.045	2
5500E+475	Soil	2.6	65.2	65.5	424	3.1	19.0	13.0	697	4.18	139.5	4.8	0.5	6	1.8	11.7	2.4	100	0.10	0.072	4
5500E+500	Soil	3.0	31.6	42.6	154	0.7	8.0	4.1	213	3.51	60.8	1.8	0.3	7	0.8	6.0	2.0	101	0.12	0.063	4
5500E+525	Soil	2.4	49.0	58.2	320	0.6	13.9	7.3	291	4.13	74.4	3.0	0.8	6	0.9	7.7	3.8	95	0.06	0.075	3
5500E+550	Soil	2.2	70.3	452.7	699	1.7	19.4	27.6	1283	6.01	221.4	2.9	0.5	11	1.8	17.6	6.5	124	0.13	0.086	3
5500E+575	Soil	2.7	37.6	54.8	301	0.9	31.1	9.2	297	3.95	45.4	17.0	0.3	9	1.0	6.0	3.2	106	0.13	0.061	3
5500E+600	Soil	1.7	18.0	25.1	82	0.2	5.0	5.6	464	3.22	10.8	12.2	0.3	6	0.2	2.1	0.8	73	0.07	0.053	2
5500E+625	Soil	2.1	82.6	157.7	410	1.5	15.5	9.5	1171	3.75	92.1	4.4	0.3	10	1.7	6.3	6.2	108	0.14	0.088	4
5500E+650	Soil	1.7	32.2	68.7	373	0.4	13.8	11.6	2186	3.09	29.6	<0.5	0.2	21	2.2	2.5	1.5	121	0.31	0.112	3
5500E+675	Soil	5.0	41.2	88.7	371	0.6	15.7	10.8	728	3.41	80.6	1.4	0.4	33	1.5	3.3	3.9	140	0.53	0.156	3
5500E+700	Soil	5.2	33.1	124.9	1303	0.5	19.1	16.0	3158	4.09	121.4	167.1	0.3	12	4.7	5.1	2.3	106	0.23	0.059	4
5500E+725	Soil	4.2	82.8	59.0	219	1.2	13.0	14.8	685	4.90	43.8	6.5	0.8	13	0.7	8.1	1.7	77	0.19	0.103	3
5500E+750	Soil	3.6	62.2	68.2	192	1.7	11.7	11.5	451	3.87	22.3	7.1	0.8	8	0.8	3.7	1.3	74	0.10	0.072	3
5500E+775	Soil	2.5	12.3	28.7	76	0.4	4.2	3.2	160	3.14	17.4	2.8	0.6	5	0.2	3.8	1.1	96	0.05	0.027	2
5500E+800	Soil	2.9	37.4	37.0	225	1.2	11.7	6.7	752	3.08	125.9	4.7	0.7	8	1.3	8.0	1.6	69	0.08	0.061	3
5500E+825	Soil	4.2	47.7	73.0	291	0.8	11.2	5.6	374	4.12	105.2	10.3	0.6	8	0.7	9.0	3.8	109	0.12	0.066	4
5500E+850	Soil	3.4	20.0	30.9	152	1.1	5.9	3.9	143	3.51	51.6	2.6	0.8	7	0.5	4.3	1.6	87	0.06	0.058	3
5500E+875	Soil	3.5	40.1	41.0	91	1.4	4.8	2.3	127	3.89	169.5	16.4	0.9	5	0.4	9.5	3.2	92	0.05	0.060	4
5500E+900	Soil	7.0	78.9	26.6	157	2.4	7.9	8.4	274	4.08	78.6	3.0	<0.1	7	0.6	8.3	3.7	78	0.06	0.091	3
5500E+925	Soil	13.4	96.9	135.8	174	2.6	12.0	15.5	1075	6.12	189.7	2.1	0.1	7	0.8	23.6	3.1	148	0.06	0.126	5

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Project: Giant Copper
Report Date: July 30, 2015

CERTIFICATE OF ANALYSIS VAN15001736.1

		Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
5500E+200	Soil		19	0.14	48	0.035	3	1.15	0.011	0.04	<0.1	0.09	1.1	0.1	<0.05	6	0.5	<0.2
5500E+225	Soil		19	0.27	192	0.097	3	1.54	0.015	0.04	0.1	0.07	3.5	0.2	<0.05	11	<0.5	<0.2
5500E+250	Soil		16	0.31	87	0.062	4	1.70	0.013	0.05	0.1	0.12	4.0	0.2	<0.05	9	0.9	<0.2
5500E+275	Soil		15	0.16	29	0.097	3	1.24	0.012	0.04	0.1	0.09	2.2	<0.1	<0.05	10	<0.5	<0.2
5500E+300	Soil		16	0.19	44	0.097	3	3.16	0.010	0.03	0.2	0.13	3.3	0.1	<0.05	10	0.6	<0.2
5500E+325	Soil		14	0.12	20	0.107	2	1.35	0.011	0.02	0.3	0.07	2.2	<0.1	<0.05	10	<0.5	<0.2
5500E+350	Soil		14	0.16	29	0.071	3	1.59	0.010	0.03	0.2	0.10	2.6	0.1	<0.05	10	<0.5	<0.2
5500E+375	Soil		18	0.17	39	0.116	3	2.09	0.010	0.03	0.2	0.09	3.2	0.1	<0.05	13	0.7	<0.2
5500E+400	Soil		12	0.12	33	0.133	2	3.05	0.012	0.03	0.2	0.09	2.6	0.1	<0.05	10	0.6	<0.2
5500E+425	Soil		6	0.05	29	0.085	2	0.60	0.013	0.03	<0.1	0.08	1.4	<0.1	<0.05	5	<0.5	<0.2
5500E+450	Soil		10	0.11	29	0.111	3	1.81	0.012	0.03	0.2	0.10	2.8	<0.1	<0.05	11	<0.5	<0.2
5500E+475	Soil		17	0.36	42	0.060	5	3.22	0.011	0.04	0.2	0.11	5.8	0.2	<0.05	9	1.7	<0.2
5500E+500	Soil		14	0.14	33	0.031	4	1.20	0.012	0.05	0.2	0.07	3.5	0.2	<0.05	8	1.0	<0.2
5500E+525	Soil		23	0.27	42	0.079	3	2.61	0.013	0.04	0.2	0.08	4.6	0.1	<0.05	11	0.8	0.5
5500E+550	Soil		24	0.46	40	0.049	5	2.23	0.013	0.04	0.3	0.09	6.7	0.2	<0.05	11	1.6	0.2
5500E+575	Soil		66	0.55	40	0.056	4	1.87	0.014	0.04	0.2	0.09	5.5	0.2	<0.05	10	0.9	0.8
5500E+600	Soil		9	0.12	24	0.109	2	1.21	0.016	0.03	0.1	0.07	2.2	<0.1	<0.05	8	0.6	<0.2
5500E+625	Soil		21	0.64	51	0.021	7	2.57	0.012	0.05	0.3	0.08	9.0	0.2	<0.05	9	1.2	<0.2
5500E+650	Soil		15	0.79	73	0.032	6	2.39	0.016	0.05	0.2	0.10	8.6	0.2	<0.05	10	0.5	<0.2
5500E+675	Soil		19	0.84	63	0.042	7	2.81	0.017	0.04	1.2	0.09	11.9	0.1	<0.05	12	0.6	0.3
5500E+700	Soil		18	0.34	69	0.063	4	2.86	0.013	0.06	0.7	0.08	4.4	0.2	<0.05	12	1.0	<0.2
5500E+725	Soil		11	0.20	27	0.109	5	3.43	0.015	0.05	0.8	0.20	4.2	0.1	<0.05	8	3.8	<0.2
5500E+750	Soil		12	0.21	26	0.110	3	2.94	0.013	0.04	0.7	0.13	3.6	<0.1	<0.05	10	1.9	<0.2
5500E+775	Soil		10	0.12	19	0.124	2	1.32	0.013	0.02	0.2	0.07	2.1	<0.1	<0.05	11	<0.5	<0.2
5500E+800	Soil		11	0.25	64	0.110	3	2.20	0.012	0.04	0.5	0.13	3.0	0.1	<0.05	10	0.7	<0.2
5500E+825	Soil		15	0.42	50	0.085	6	1.96	0.011	0.06	1.0	0.05	5.5	0.2	<0.05	11	1.2	<0.2
5500E+850	Soil		12	0.13	57	0.105	3	2.34	0.012	0.04	0.5	0.11	2.9	0.1	<0.05	11	0.8	<0.2
5500E+875	Soil		13	0.13	20	0.074	3	2.11	0.012	0.03	1.0	0.10	3.4	0.1	<0.05	11	1.3	0.3
5500E+900	Soil		11	0.13	29	0.033	4	1.55	0.011	0.04	0.6	0.18	2.6	<0.1	<0.05	7	6.0	1.0
5500E+925	Soil		18	0.19	22	0.010	4	1.81	0.009	0.04	1.2	0.15	4.1	0.2	<0.05	8	7.1	0.7

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	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
5500E+950	Soil	10.6	39.2	34.0	79	0.9	5.6	6.7	425	3.49	89.3	1.9	0.3	6	0.3	3.0	1.3	117	0.07	0.061	3
5500E+975	Soil	4.8	26.8	31.0	31	0.4	3.2	1.8	223	2.75	22.0	<0.5	0.2	5	0.6	0.9	0.8	78	0.06	0.131	2
5500E+1000	Soil	2.1	15.8	10.6	27	1.1	2.3	1.6	77	1.36	26.3	1.5	0.2	4	0.4	1.6	0.6	41	0.03	0.043	2
5500E+1025	Soil	1.3	7.3	8.3	20	0.1	1.6	0.9	35	0.52	9.4	3.6	<0.1	4	<0.1	1.0	0.6	27	0.03	0.018	2
5500E+1050	Soil	2.6	31.3	26.6	90	0.9	4.6	6.7	408	2.35	68.3	5.1	1.0	5	0.4	2.9	1.6	51	0.04	0.072	3
5500E+1075	Soil	1.3	7.5	9.0	21	0.4	1.8	1.4	53	1.18	12.1	1.5	0.3	2	0.1	0.7	0.5	44	0.02	0.021	2
5500E+1100	Soil	4.3	41.5	29.5	200	0.9	10.0	7.9	261	3.07	162.4	5.8	0.6	9	1.1	4.0	2.1	71	0.13	0.064	7
5500E+1125	Soil	1.2	8.0	8.5	29	0.3	1.9	1.4	58	1.21	20.3	5.3	0.1	3	0.3	1.1	0.7	36	0.03	0.038	2
5500E+1150	Soil	2.9	19.4	58.2	49	1.8	3.2	1.9	107	2.49	55.2	11.8	0.3	5	0.5	2.5	1.7	66	0.05	0.064	3
5500E+1175	Soil	6.1	109.1	116.0	361	3.3	15.4	38.4	1631	5.57	424.0	525.3	0.7	11	2.7	12.4	6.3	96	0.13	0.165	7
5500E+1200	Soil	1.9	12.2	17.3	24	0.6	2.1	1.2	56	1.36	38.6	36.5	0.2	6	0.4	1.0	1.5	39	0.05	0.041	2
5500E+1225	Soil	3.2	35.5	27.3	83	1.0	4.3	4.5	303	2.45	114.2	32.2	0.2	8	0.8	2.1	2.3	48	0.08	0.089	3
5500E+1250	Soil	5.5	38.7	42.9	73	1.3	5.3	5.4	1046	3.33	97.1	44.7	0.2	9	1.8	2.4	2.4	69	0.10	0.083	3
5500E+1275	Soil	11.8	85.6	185.6	475	1.1	23.8	19.6	1806	8.44	342.0	104.8	0.5	15	2.3	23.2	9.3	166	0.11	0.108	8
5500E+1300	Soil	6.2	139.9	247.4	482	1.8	30.6	31.7	1961	5.66	344.1	79.2	0.6	18	5.6	14.1	7.3	106	0.30	0.155	9
GC15+00	Soil	10.1	53.0	191.5	450	0.8	13.4	28.0	1324	3.04	82.0	7.7	0.3	45	4.5	12.6	1.4	89	1.31	0.046	3
GC15+25	Soil	8.5	37.3	41.7	142	0.3	16.6	15.3	687	3.69	131.5	11.3	1.1	25	1.2	4.5	0.8	97	0.24	0.046	4
GC15+50	Soil	4.4	24.2	36.4	106	1.1	12.1	9.3	365	3.08	122.9	2.3	0.8	27	1.1	3.4	0.5	89	0.44	0.048	5
GC15+75	Soil	1.5	48.6	41.7	169	0.6	24.6	15.8	961	3.54	31.1	9.3	1.0	256	1.2	3.9	0.3	97	0.67	0.092	5
GC15+100	Soil	3.6	45.3	33.5	148	0.6	19.5	16.0	845	4.08	127.9	3.2	1.5	46	1.3	3.1	0.5	100	0.39	0.077	9
GC15+125	Soil	2.1	51.5	50.7	195	0.6	22.2	18.8	1162	3.48	45.1	5.6	0.9	125	1.6	4.9	1.2	94	0.70	0.098	5
GC15+150	Soil	1.3	43.9	22.1	206	0.7	27.5	15.4	946	3.83	22.4	1.2	1.2	57	1.8	1.6	0.4	86	0.41	0.106	5
GC15+175	Soil	1.4	56.4	33.4	195	0.7	23.2	18.5	1022	3.39	27.8	2.9	0.6	138	2.8	2.2	0.9	72	0.60	0.146	5
GC15+200	Soil	2.0	48.1	40.7	227	0.5	22.4	19.5	1393	3.65	91.9	1.1	1.0	65	3.4	1.9	0.7	88	0.60	0.116	6
GC15+225	Soil	1.7	63.4	74.9	250	0.4	25.8	19.9	1099	3.74	32.8	4.2	1.0	179	2.1	5.8	1.4	88	0.88	0.078	5
GC15+250	Soil	2.9	57.6	55.1	273	0.7	25.8	19.5	1512	4.17	126.9	0.8	0.5	56	3.9	3.2	0.9	99	0.57	0.108	8
GC15+275	Soil	2.1	53.4	59.8	193	0.4	26.8	22.6	1188	4.09	164.2	4.0	1.4	86	1.1	5.7	1.4	112	0.73	0.026	7
GC15+300	Soil	5.2	206.0	161.1	731	2.7	34.5	26.1	1710	4.28	164.5	7.1	1.1	18	5.8	4.5	3.9	89	0.29	0.168	9
GC15+325	Soil	2.3	58.3	89.1	469	1.1	25.8	21.2	1341	4.18	30.2	1.3	1.4	41	5.2	4.6	1.4	84	0.36	0.147	6
GC15+350	Soil	14.6	64.1	175.2	495	1.2	32.7	39.3	6572	4.16	120.9	1.7	0.9	27	36.3	9.4	1.6	109	0.68	0.061	7

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Project: Giant Copper
Report Date: July 30, 2015

CERTIFICATE OF ANALYSIS VAN15001736.1

	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
5500E+950	Soil	10	0.11	19	0.056	3	1.96	0.015	0.02	0.4	0.14	3.4	<0.1	<0.05	9	2.0	0.2
5500E+975	Soil	9	0.06	18	0.068	2	2.31	0.010	0.02	0.3	0.14	2.3	<0.1	0.06	9	1.6	<0.2
5500E+1000	Soil	6	0.06	17	0.045	2	1.24	0.013	0.02	0.2	0.10	1.4	<0.1	<0.05	5	0.9	<0.2
5500E+1025	Soil	4	0.02	10	0.045	3	0.24	0.014	0.01	0.1	0.04	0.7	<0.1	<0.05	3	<0.5	<0.2
5500E+1050	Soil	10	0.09	30	0.077	2	3.59	0.012	0.02	0.6	0.14	2.9	<0.1	<0.05	9	0.9	<0.2
5500E+1075	Soil	6	0.03	10	0.059	<1	0.78	0.013	<0.01	<0.1	0.04	1.0	<0.1	<0.05	6	<0.5	<0.2
5500E+1100	Soil	12	0.21	46	0.077	4	2.77	0.013	0.04	0.2	0.10	4.6	0.1	<0.05	10	1.7	<0.2
5500E+1125	Soil	5	0.05	11	0.046	2	0.53	0.012	0.01	0.1	0.04	1.0	<0.1	<0.05	4	<0.5	<0.2
5500E+1150	Soil	9	0.08	24	0.061	3	1.43	0.011	0.03	0.3	0.11	1.9	<0.1	<0.05	8	1.1	<0.2
5500E+1175	Soil	22	0.42	50	0.065	6	4.37	0.011	0.07	13.5	0.15	7.8	0.2	<0.05	10	4.3	1.2
5500E+1200	Soil	5	0.04	20	0.061	1	0.86	0.012	0.02	0.3	0.09	1.4	<0.1	<0.05	6	0.6	<0.2
5500E+1225	Soil	10	0.10	33	0.054	3	2.94	0.012	0.03	0.5	0.16	2.9	<0.1	<0.05	7	1.3	0.3
5500E+1250	Soil	11	0.08	26	0.066	3	2.37	0.011	0.02	0.5	0.21	2.6	<0.1	<0.05	9	1.5	0.3
5500E+1275	Soil	26	0.53	57	0.048	9	2.88	0.009	0.10	0.6	0.10	8.0	0.5	<0.05	12	3.9	0.7
5500E+1300	Soil	26	0.62	68	0.067	7	3.22	0.016	0.10	2.4	0.08	8.6	0.3	<0.05	10	2.8	0.7
GC15+00	Soil	13	0.38	24	0.075	3	3.00	0.099	0.07	0.1	0.03	7.6	0.2	<0.05	7	4.2	<0.2
GC15+25	Soil	19	0.46	94	0.110	5	3.66	0.014	0.10	0.4	0.04	6.7	0.2	<0.05	10	0.9	<0.2
GC15+50	Soil	18	0.42	70	0.115	7	3.53	0.012	0.08	0.4	0.07	6.3	0.1	<0.05	10	1.4	<0.2
GC15+75	Soil	29	0.98	115	0.136	7	3.89	0.040	0.20	0.2	0.02	9.3	0.2	<0.05	10	0.7	<0.2
GC15+100	Soil	30	0.60	117	0.139	6	4.37	0.012	0.12	0.3	0.12	8.4	0.2	<0.05	12	1.2	<0.2
GC15+125	Soil	24	0.74	96	0.112	5	3.60	0.025	0.20	0.2	0.03	8.5	0.2	<0.05	10	0.5	<0.2
GC15+150	Soil	32	0.69	171	0.120	5	4.06	0.011	0.16	0.2	0.05	6.2	0.1	<0.05	10	<0.5	<0.2
GC15+175	Soil	26	0.70	135	0.091	5	4.44	0.008	0.17	0.2	0.06	5.2	0.1	<0.05	9	0.5	<0.2
GC15+200	Soil	28	0.59	173	0.122	6	3.88	0.011	0.18	0.2	0.09	5.9	0.2	<0.05	11	0.7	<0.2
GC15+225	Soil	26	0.95	92	0.120	4	3.56	0.031	0.14	0.2	0.02	8.6	0.2	<0.05	9	0.6	<0.2
GC15+250	Soil	34	0.60	137	0.098	5	4.04	0.015	0.09	0.2	0.06	6.0	0.1	<0.05	12	1.4	<0.2
GC15+275	Soil	30	0.91	174	0.132	3	4.07	0.041	0.14	0.3	0.03	10.5	0.3	<0.05	11	1.0	<0.2
GC15+300	Soil	20	0.40	75	0.083	4	4.11	0.014	0.08	0.9	0.10	6.5	0.2	<0.05	11	1.7	<0.2
GC15+325	Soil	23	0.68	129	0.119	6	3.95	0.012	0.11	0.2	0.07	6.7	0.2	<0.05	11	0.9	<0.2
GC15+350	Soil	26	0.62	118	0.088	6	2.82	0.015	0.11	0.3	0.09	10.0	0.9	<0.05	10	1.5	<0.2

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Project: Giant Copper
Report Date: July 30, 2015

CERTIFICATE OF ANALYSIS VAN15001736.1

	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
GC15+375	Soil	2.4	41.6	78.6	600	0.6	26.3	19.5	2201	3.55	25.6	1.6	1.0	22	7.5	5.1	1.1	78	0.25	0.133	5
GC15+400	Soil	3.0	65.4	62.0	830	0.9	31.1	15.6	831	4.10	28.4	4.5	1.3	21	4.1	6.8	1.2	88	0.28	0.104	6
GC15+425	Soil	3.1	60.3	37.8	395	0.7	27.4	25.7	1132	4.06	20.8	1.6	1.3	19	3.9	6.0	1.4	77	0.22	0.093	5
GC15+450	Soil	3.1	60.4	38.8	380	0.3	21.9	15.8	711	4.28	26.8	1.6	1.3	22	2.7	5.0	1.1	83	0.24	0.090	5
GC15+475	Soil	3.7	81.0	39.5	239	0.5	21.3	19.5	927	4.20	38.5	3.4	1.2	23	1.8	5.1	1.3	86	0.18	0.078	5
GC15+500	Soil	2.6	42.1	34.7	323	0.4	21.0	16.8	1287	3.50	26.9	2.2	0.9	27	2.3	3.8	1.0	86	0.23	0.060	5
GC15+525	Soil	5.3	99.1	87.1	692	0.7	31.7	22.7	1056	5.34	57.4	4.9	1.3	37	2.3	10.3	1.7	117	0.20	0.062	7
GC15+550	Soil	5.3	99.4	53.2	378	0.4	34.3	18.8	933	5.28	83.0	6.5	1.3	35	2.4	10.6	1.7	109	0.19	0.069	7
GC15+575	Soil	5.8	115.1	66.4	434	0.4	38.1	24.0	1415	6.68	61.2	5.6	1.4	38	3.1	9.1	1.9	141	0.20	0.098	6
GC15+600	Soil	2.2	51.4	32.6	165	0.2	19.2	18.6	912	3.19	33.0	6.6	1.0	39	1.7	3.5	0.9	78	0.55	0.085	6
GC15+625	Soil	1.9	35.2	21.2	145	0.4	16.0	14.5	759	3.01	20.1	1.1	1.0	32	1.6	2.1	0.5	66	0.44	0.122	5
GC15+650	Soil	2.7	42.4	28.5	168	0.3	19.0	18.8	746	3.24	28.8	3.4	1.1	29	1.3	3.1	0.8	81	0.32	0.110	5
GC15+675	Soil	2.2	44.5	28.5	168	0.4	18.2	15.6	1034	3.71	24.2	3.0	1.1	28	1.5	3.5	0.7	78	0.29	0.104	5
GC15+700	Soil	3.6	48.4	37.6	320	0.8	20.0	18.0	812	3.80	56.6	3.8	1.2	44	1.7	5.8	0.9	89	0.39	0.063	7
GC15+725	Soil	2.4	44.0	29.1	211	0.6	20.6	15.0	778	3.79	26.1	15.2	1.3	18	1.1	2.8	0.8	89	0.24	0.100	5
GC15+750	Soil	2.9	58.9	35.1	192	0.3	18.4	17.2	869	3.48	40.4	5.5	1.0	51	1.3	3.5	1.2	83	0.56	0.068	6
GC15+775	Soil	1.3	31.0	17.7	121	0.3	19.2	12.2	839	3.52	11.6	1.3	1.4	54	1.1	1.4	0.3	83	0.45	0.121	5
GC15+800	Soil	1.1	36.1	17.9	123	0.2	21.3	13.0	1012	3.60	10.6	0.5	1.3	64	0.9	1.3	0.3	84	0.48	0.150	5
GC15+825	Soil	1.1	43.7	17.7	125	0.2	23.1	15.9	818	3.67	12.3	7.4	1.4	113	0.8	1.6	0.3	83	0.53	0.108	5
GC15+850	Soil	1.3	28.4	17.9	199	0.3	17.8	14.2	1598	3.18	10.6	<0.5	1.8	22	1.0	1.2	0.3	68	0.24	0.203	6
GC15+875	Soil	1.4	51.7	24.3	151	0.3	24.0	17.2	1113	3.73	20.2	15.2	1.2	118	1.4	2.6	0.5	88	0.62	0.121	6
GC15+900	Soil	2.6	45.2	33.9	227	0.6	19.9	14.8	1055	4.07	18.5	1.9	1.1	27	1.6	3.0	1.0	89	0.22	0.121	6
GC15+925	Soil	2.3	45.3	33.8	237	0.5	20.8	15.7	974	4.01	17.0	1.4	1.1	52	2.0	3.0	0.8	85	0.30	0.131	6
GC15+950	Soil	2.5	68.8	42.0	292	0.3	30.1	25.8	1258	4.93	22.3	6.7	1.7	64	2.6	4.2	0.9	98	0.31	0.110	9
GC15+975	Soil	1.4	11.2	17.3	61	0.2	4.9	5.6	1092	2.36	11.5	0.5	0.6	8	0.8	0.7	0.3	48	0.13	0.130	2
GC15+1000	Soil	4.2	55.2	31.6	251	0.6	23.4	18.8	672	3.98	82.0	3.7	1.5	25	1.7	4.3	1.2	86	0.30	0.112	6
GC15+1025	Soil	3.0	65.2	32.1	206	0.5	25.1	18.9	723	3.90	39.6	1.4	1.4	35	1.6	3.9	0.7	88	0.44	0.077	6
GC15+1050	Soil	2.4	33.5	23.4	148	0.3	12.3	10.9	645	3.25	26.6	15.2	1.0	22	1.2	2.3	0.6	75	0.20	0.124	5
GC15+1075	Soil	6.5	43.9	28.5	182	1.2	18.4	12.1	941	3.72	200.5	1.7	0.9	31	1.7	5.9	0.9	97	0.63	0.068	11
GC15+1100	Soil	2.9	38.7	23.9	196	0.3	19.9	14.0	588	3.76	29.8	1.6	1.0	20	1.5	2.5	0.7	83	0.30	0.096	5

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		Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
GC15+375	Soil		17	0.33	81	0.095	4	2.91	0.012	0.07	0.2	0.07	4.7	0.2	<0.05	10	0.9	<0.2
GC15+400	Soil		22	0.63	101	0.110	5	3.90	0.011	0.09	0.2	0.05	6.2	0.2	<0.05	11	1.0	<0.2
GC15+425	Soil		18	0.43	85	0.137	5	3.39	0.012	0.08	0.2	0.06	5.6	0.2	<0.05	10	1.0	<0.2
GC15+450	Soil		20	0.60	136	0.125	4	3.68	0.009	0.10	0.2	0.05	6.6	0.2	<0.05	10	1.0	<0.2
GC15+475	Soil		20	0.53	140	0.116	4	3.71	0.010	0.11	0.3	0.04	7.8	0.2	<0.05	11	1.5	<0.2
GC15+500	Soil		20	0.43	90	0.117	4	3.27	0.014	0.08	0.1	0.04	5.9	0.2	<0.05	11	0.9	<0.2
GC15+525	Soil		29	0.77	105	0.154	4	4.17	0.011	0.12	0.3	0.03	9.8	0.2	<0.05	12	1.8	<0.2
GC15+550	Soil		28	0.67	101	0.144	4	3.87	0.011	0.11	0.2	0.04	9.9	0.2	<0.05	11	1.6	<0.2
GC15+575	Soil		32	0.82	125	0.169	3	4.78	0.014	0.21	0.2	0.04	11.9	0.4	<0.05	13	1.9	<0.2
GC15+600	Soil		20	0.68	90	0.130	4	2.94	0.015	0.14	0.4	0.03	6.9	0.2	<0.05	8	0.6	<0.2
GC15+625	Soil		19	0.56	80	0.130	5	3.63	0.013	0.10	0.3	0.07	5.7	0.1	<0.05	8	0.9	<0.2
GC15+650	Soil		20	0.68	123	0.135	5	4.04	0.012	0.09	0.3	0.05	7.2	0.2	<0.05	9	0.5	<0.2
GC15+675	Soil		22	0.61	108	0.137	4	3.34	0.010	0.09	0.3	0.06	6.4	0.2	<0.05	10	0.8	<0.2
GC15+700	Soil		22	0.64	105	0.138	4	3.62	0.013	0.12	0.4	0.06	9.3	0.2	<0.05	10	1.0	<0.2
GC15+725	Soil		24	0.58	96	0.133	4	3.89	0.010	0.09	0.3	0.12	6.4	0.2	<0.05	11	<0.5	<0.2
GC15+750	Soil		23	0.69	109	0.132	4	2.98	0.022	0.09	0.3	0.04	7.3	0.2	<0.05	8	1.2	<0.2
GC15+775	Soil		25	0.71	136	0.173	5	3.80	0.007	0.12	0.2	0.07	5.9	0.1	<0.05	10	0.5	<0.2
GC15+800	Soil		28	0.84	143	0.155	4	3.99	0.008	0.07	0.2	0.07	6.6	0.1	<0.05	10	0.6	<0.2
GC15+825	Soil		27	0.89	172	0.168	4	3.84	0.010	0.09	0.2	0.07	6.9	0.1	<0.05	10	<0.5	<0.2
GC15+850	Soil		22	0.49	141	0.143	3	4.24	0.012	0.07	0.2	0.09	6.0	0.1	<0.05	9	0.8	<0.2
GC15+875	Soil		27	0.90	144	0.161	6	3.76	0.010	0.15	0.2	0.07	7.9	0.2	<0.05	9	0.9	<0.2
GC15+900	Soil		21	0.44	140	0.136	4	4.23	0.011	0.09	0.2	0.08	6.5	0.2	<0.05	11	1.1	<0.2
GC15+925	Soil		21	0.54	140	0.127	3	4.01	0.011	0.10	0.2	0.08	6.2	0.2	<0.05	10	0.7	<0.2
GC15+950	Soil		30	0.92	297	0.165	4	4.64	0.011	0.12	0.2	0.07	10.0	0.3	<0.05	11	1.0	<0.2
GC15+975	Soil		9	0.08	45	0.126	2	2.41	0.013	0.04	0.2	0.12	1.5	<0.1	<0.05	10	<0.5	<0.2
GC15+1000	Soil		26	0.67	140	0.141	3	3.84	0.012	0.12	0.6	0.08	7.2	0.1	<0.05	10	1.1	<0.2
GC15+1025	Soil		31	0.83	140	0.140	5	3.73	0.014	0.12	0.2	0.04	8.3	0.2	<0.05	9	1.1	<0.2
GC15+1050	Soil		19	0.36	92	0.112	2	3.02	0.011	0.07	0.3	0.07	4.6	0.2	<0.05	9	0.9	<0.2
GC15+1075	Soil		35	0.51	85	0.110	5	3.62	0.013	0.12	0.9	0.10	8.5	0.2	<0.05	10	1.5	<0.2
GC15+1100	Soil		25	0.57	91	0.123	4	3.78	0.009	0.08	0.3	0.08	5.8	0.1	<0.05	9	0.9	<0.2

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Client: **Imperial Metals Corporation**
200 - 580 Hornby St.
Vancouver BC V6C 3B6 CANADA

Project: Giant Copper
Report Date: July 30, 2015

QUALITY CONTROL REPORT VAN15001736.1

	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
Pulp Duplicates																					
5200E+750	Soil	8.0	24.8	92.3	133	1.7	4.8	3.4	247	3.91	163.6	6.9	1.1	9	1.1	2.7	1.6	87	0.16	0.072	3
REP 5200E+750	QC	7.7	24.2	90.8	127	1.6	4.7	3.3	254	3.93	159.1	6.2	1.1	9	1.1	2.6	1.6	84	0.16	0.072	3
5200E+1150	Soil	4.2	42.1	23.8	116	0.7	11.8	6.2	240	4.26	36.8	5.8	1.6	8	0.6	1.8	1.0	76	0.10	0.072	6
REP 5200E+1150	QC	4.8	45.9	23.7	126	0.7	13.0	7.1	259	4.34	37.1	7.4	1.7	9	0.8	2.0	1.0	81	0.11	0.078	8
5200E+1275	Soil	68.2	48.7	31.5	56	1.7	4.7	38.1	2699	9.91	211.8	4.9	1.1	9	1.4	5.1	0.9	126	0.11	0.114	17
REP 5200E+1275	QC	64.6	42.8	29.1	51	1.5	4.3	33.0	2564	9.20	198.6	4.6	1.2	8	1.3	4.7	0.8	120	0.11	0.101	16
5400E+125	Soil	2.3	18.4	18.8	147	0.2	8.1	9.0	1911	2.70	27.9	3.3	<0.1	18	2.3	1.7	0.6	65	0.37	0.180	4
REP 5400E+125	QC	2.2	18.0	18.9	146	0.2	8.0	8.6	1851	2.65	27.3	2.0	<0.1	18	2.5	1.7	0.6	64	0.38	0.179	4
5400E+1075	Soil	3.4	106.1	28.4	47	2.1	5.0	5.6	233	5.06	108.0	290.4	1.1	7	0.2	1.7	7.3	62	0.06	0.104	3
REP 5400E+1075	QC	3.4	104.2	29.4	48	2.1	5.3	5.5	225	4.87	112.2	112.3	1.2	7	0.2	1.7	7.6	64	0.05	0.105	3
5500E+700	Soil	5.2	33.1	124.9	1303	0.5	19.1	16.0	3158	4.09	121.4	167.1	0.3	12	4.7	5.1	2.3	106	0.23	0.059	4
REP 5500E+700	QC	5.1	32.8	128.8	1318	0.4	19.2	16.5	3210	4.12	124.9	36.8	0.3	12	4.2	5.0	2.3	106	0.23	0.060	4
5500E+1250	Soil	5.5	38.7	42.9	73	1.3	5.3	5.4	1046	3.33	97.1	44.7	0.2	9	1.8	2.4	2.4	69	0.10	0.083	3
REP 5500E+1250	QC	5.5	38.2	44.2	71	1.3	5.1	5.1	1108	3.20	100.8	35.6	0.2	8	1.9	2.4	2.4	65	0.10	0.084	3
GC15+1100	Soil	2.9	38.7	23.9	196	0.3	19.9	14.0	588	3.76	29.8	1.6	1.0	20	1.5	2.5	0.7	83	0.30	0.096	5
REP GC15+1100	QC	2.7	37.7	25.2	194	0.4	19.2	13.3	594	3.73	30.1	1.9	1.1	20	1.6	2.6	0.7	81	0.30	0.090	6
Reference Materials																					
STD DS10	Standard	15.4	151.4	145.3	357	1.9	73.2	12.8	891	2.79	46.4	86.0	7.3	71	2.4	9.1	11.7	44	1.05	0.069	19
STD DS10	Standard	14.7	146.1	158.5	343	1.9	69.5	11.9	867	2.77	46.8	72.4	7.3	64	2.6	8.6	11.9	41	1.07	0.076	18
STD DS10	Standard	15.6	157.0	155.5	364	2.0	74.7	12.6	880	2.85	48.1	68.1	7.6	63	2.7	9.2	11.6	47	1.08	0.081	19
STD DS10	Standard	14.9	164.3	156.0	373	2.0	73.7	12.9	962	2.86	48.3	82.5	7.9	72	3.1	10.0	12.6	46	1.14	0.081	20
STD DS10	Standard	15.1	151.9	155.2	347	2.0	72.8	12.3	895	2.74	45.0	70.6	7.0	61	2.4	8.4	11.4	44	1.03	0.075	17
STD DS10	Standard	15.4	149.3	158.3	370	2.0	72.7	12.7	901	2.82	48.8	96.7	7.5	65	3.0	8.9	12.0	44	1.08	0.086	18
STD DS10	Standard	13.7	141.0	148.3	356	1.9	70.2	11.9	845	2.73	45.7	69.4	6.9	64	2.8	8.6	11.0	41	1.00	0.076	18
STD DS10	Standard	14.5	148.0	149.0	375	2.0	69.1	12.8	887	3.00	43.5	71.3	7.3	63	2.7	9.1	11.2	42	1.02	0.074	18
STD OXC129	Standard	1.4	28.4	5.9	41	<0.1	81.3	21.1	440	3.16	0.9	212.7	1.8	216	<0.1	<0.1	<0.1	55	0.73	0.101	13
STD OXC129	Standard	1.3	28.7	5.9	41	<0.1	77.4	19.7	416	3.01	0.9	200.3	1.7	194	<0.1	<0.1	<0.1	53	0.74	0.099	12
STD OXC129	Standard	1.3	28.8	5.7	42	<0.1	76.9	20.4	415	3.17	<0.5	199.3	1.7	195	<0.1	<0.1	<0.1	54	0.71	0.101	12

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Project: Giant Copper
Report Date: July 30, 2015

QUALITY CONTROL REPORT VAN15001736.1

	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																	
5200E+750	Soil	15	0.13	35	0.074	4	4.01	0.010	0.03	0.5	0.20	4.4	0.1	<0.05	12	1.6	<0.2
REP 5200E+750	QC	14	0.13	35	0.071	3	3.91	0.009	0.02	0.4	0.22	4.4	<0.1	<0.05	11	1.9	<0.2
5200E+1150	Soil	22	0.39	53	0.119	3	4.81	0.007	0.03	0.4	0.11	6.9	0.2	<0.05	10	1.7	<0.2
REP 5200E+1150	QC	24	0.40	56	0.133	3	4.98	0.008	0.03	0.4	0.13	6.9	0.1	<0.05	11	1.0	<0.2
5200E+1275	Soil	17	0.12	43	0.065	3	3.37	0.009	0.03	0.3	0.24	6.4	0.1	<0.05	9	13.3	<0.2
REP 5200E+1275	QC	15	0.11	40	0.057	3	3.10	0.008	0.03	0.2	0.22	5.8	0.1	<0.05	8	12.7	<0.2
5400E+125	Soil	16	0.23	70	0.029	4	1.65	0.012	0.09	<0.1	0.05	0.9	0.1	0.08	9	1.1	<0.2
REP 5400E+125	QC	15	0.23	68	0.029	4	1.64	0.011	0.08	<0.1	0.04	0.9	0.1	0.09	9	1.0	<0.2
5400E+1075	Soil	14	0.13	24	0.109	2	3.47	0.014	0.02	0.6	0.15	3.4	<0.1	<0.05	10	3.9	0.4
REP 5400E+1075	QC	14	0.14	25	0.109	3	3.70	0.015	0.02	0.8	0.13	3.2	<0.1	<0.05	10	4.1	0.4
5500E+700	Soil	18	0.34	69	0.063	4	2.86	0.013	0.06	0.7	0.08	4.4	0.2	<0.05	12	1.0	<0.2
REP 5500E+700	QC	18	0.34	67	0.058	5	2.89	0.013	0.06	0.7	0.08	4.5	0.2	<0.05	12	1.0	0.2
5500E+1250	Soil	11	0.08	26	0.066	3	2.37	0.011	0.02	0.5	0.21	2.6	<0.1	<0.05	9	1.5	0.3
REP 5500E+1250	QC	11	0.07	27	0.057	3	2.33	0.014	0.02	0.3	0.19	2.5	<0.1	<0.05	9	1.8	0.4
GC15+1100	Soil	25	0.57	91	0.123	4	3.78	0.009	0.08	0.3	0.08	5.8	0.1	<0.05	9	0.9	<0.2
REP GC15+1100	QC	25	0.55	93	0.119	4	3.78	0.009	0.08	0.3	0.12	5.5	0.2	<0.05	9	0.9	<0.2
Reference Materials																	
STD DS10	Standard	55	0.80	351	0.086	7	1.08	0.074	0.34	3.3	0.31	3.0	5.2	0.34	4	2.0	4.9
STD DS10	Standard	52	0.78	351	0.072	7	1.06	0.072	0.34	3.3	0.28	3.2	5.3	0.25	5	2.0	4.9
STD DS10	Standard	57	0.82	353	0.079	6	1.15	0.076	0.36	3.2	0.29	3.4	5.3	0.29	5	2.0	5.1
STD DS10	Standard	58	0.77	344	0.087	8	1.08	0.068	0.36	3.5	0.28	3.3	5.4	0.23	5	2.4	4.7
STD DS10	Standard	55	0.79	358	0.069	8	1.03	0.070	0.35	2.8	0.30	3.0	5.1	0.29	5	1.9	5.0
STD DS10	Standard	56	0.83	377	0.074	7	1.07	0.074	0.36	3.6	0.32	3.2	5.3	0.31	5	2.3	5.3
STD DS10	Standard	51	0.77	347	0.071	7	1.05	0.072	0.33	3.3	0.30	3.0	4.9	0.25	5	2.2	4.6
STD DS10	Standard	54	0.79	344	0.075	6	1.00	0.071	0.33	3.5	0.29	3.3	5.3	0.25	4	2.6	4.7
STD OXC129	Standard	54	1.66	53	0.417	<1	1.68	0.591	0.37	<0.1	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	52	1.53	50	0.393	1	1.57	0.593	0.37	<0.1	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	54	1.56	51	0.393	1	1.54	0.588	0.36	<0.1	<0.01	1.1	<0.1	<0.05	6	<0.5	<0.2

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Project: Giant Copper
Report Date: July 30, 2015

QUALITY CONTROL REPORT VAN15001736.1

		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
STD OXC129	Standard	1.2	27.1	5.9	39	<0.1	76.5	19.7	396	2.92	0.7	191.3	1.9	185	<0.1	<0.1	<0.1	52	0.67	0.102	12
STD OXC129	Standard	1.3	27.4	5.6	40	<0.1	73.4	19.3	412	2.98	1.0	200.0	1.7	178	<0.1	<0.1	<0.1	50	0.61	0.097	12
STD OXC129	Standard	1.3	28.1	5.7	43	<0.1	77.3	19.9	443	3.21	0.7	199.5	1.7	196	<0.1	<0.1	<0.1	53	0.69	0.107	12
STD OXC129	Standard	1.2	25.8	5.6	40	<0.1	77.3	19.2	414	3.12	0.8	197.5	1.7	196	<0.1	<0.1	<0.1	51	0.72	0.102	12
STD OXC129	Standard	1.3	26.9	6.1	43	<0.1	75.9	20.6	427	3.27	0.5	194.7	1.8	171	<0.1	<0.1	<0.1	52	0.66	0.099	13
STD DS10 Expected		14.69	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	43.7	91.9	7.5	67.1	2.49	8.23	11.65	43	1.0625	0.073	17.5
STD OXC129 Expected		1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102	13
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1

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		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD OXC129	Standard	48	1.50	52	0.376	1	1.51	0.551	0.34	<0.1	<0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	50	1.60	50	0.354	<1	1.48	0.588	0.36	<0.1	<0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	52	1.66	52	0.387	1	1.60	0.613	0.36	<0.1	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	50	1.64	52	0.387	1	1.59	0.608	0.35	<0.1	<0.01	1.5	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	51	1.55	48	0.396	1	1.57	0.577	0.36	<0.1	<0.01	2.1	<0.1	<0.05	6	<0.5	<0.2
STD DS10 Expected		54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OXC129 Expected		52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6		
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Imperial Metals Corporation**
200 - 580 Hornby St.
Vancouver BC V6C 3B6 CANADA

Submitted By: Melissa Darney
Receiving Lab: Canada-Vancouver
Received: July 17, 2015
Report Date: July 28, 2015
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN15001737.1

CLIENT JOB INFORMATION

Project: Giant Copper
Shipment ID: GC2015-___01___
P.O. Number
Number of Samples: 3

SAMPLE DISPOSAL

RTRN-PLP Return
DISP-RJT Dispose of Reject After 90 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	3	Crush, split and pulverize 250 g rock to 200 mesh			VAN
AQ201	3	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
DRPLP	3	Warehouse handling / disposition of pulps			VAN
DRRJT	3	Warehouse handling / Disposition of reject			VAN

ADDITIONAL COMMENTS

Invoice To: Imperial Metals Corporation
200 - 580 Hornby St.
Vancouver BC V6C 3B6
CANADA

CC: Jim Miller-Tait
Erik Andersen

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Geochemical Laboratory Manager

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Vancouver BC V6C 3B6 CANADA

Project: Giant Copper
Report Date: July 28, 2015

CERTIFICATE OF ANALYSIS VAN15001737.1

Method		WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
780979	Rock	1.32	0.3	34.1	27.5	142	0.4	10.9	3.5	703	2.16	2.4	0.7	0.5	71	1.1	0.8	0.2	72	1.05	0.021
780980	Rock	1.51	3.3	30.7	16.9	37	0.2	4.1	2.0	285	1.46	20.2	64.6	0.5	23	0.2	0.9	2.0	59	0.52	0.069
780981	Rock	2.15	2.8	202.6	456.8	171	6.8	1.4	15.5	982	10.57	64.4	3.9	0.2	9	0.7	70.5	5.2	63	0.18	0.060

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200 - 580 Hornby St.
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Project: Giant Copper
Report Date: July 28, 2015

CERTIFICATE OF ANALYSIS VAN15001737.1

	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
780979	Rock	3	13	0.85	87	0.161	6	2.46	0.372	0.37	0.2	<0.01	9.4	0.4	0.10	8	<0.5	<0.2
780980	Rock	5	9	0.16	17	0.162	3	0.88	0.169	0.03	0.4	<0.01	4.8	<0.1	<0.05	4	1.5	0.4
780981	Rock	2	3	1.25	17	0.018	5	2.58	0.006	0.06	<0.1	<0.01	9.7	<0.1	0.20	18	11.9	0.2

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Client: **Imperial Metals Corporation**
200 - 580 Hornby St.
Vancouver BC V6C 3B6 CANADA

Project: Giant Copper
Report Date: July 28, 2015

QUALITY CONTROL REPORT VAN15001737.1

		Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Reference Materials																						
STD DS10	Standard			14.4	155.5	140.4	370	1.9	75.7	12.9	873	2.69	45.1	73.8	6.4	68	2.6	9.0	10.8	43	1.08	0.073
STD OXC129	Standard			1.2	25.8	5.5	40	<0.1	75.4	19.4	403	2.88	0.5	185.9	1.6	175	<0.1	<0.1	<0.1	50	0.61	0.090
STD DS10 Expected				14.69	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	43.7	91.9	7.5	67.1	2.49	8.23	11.65	43	1.0625	0.073
STD OXC129 Expected				1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																						
ROCK-VAN	Prep Blank			0.6	2.6	1.3	29	<0.1	0.8	3.5	449	1.70	0.7	1.5	2.2	26	<0.1	<0.1	<0.1	22	0.64	0.040

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200 - 580 Hornby St.
Vancouver BC V6C 3B6 CANADA

Project: Giant Copper
Report Date: July 28, 2015

QUALITY CONTROL REPORT VAN15001737.1

	Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Reference Materials																		
STD DS10	Standard	17	55	0.77	330	0.080	9	1.03	0.069	0.34	3.2	0.31	2.8	4.8	0.27	4	2.5	4.8
STD OXC129	Standard	12	47	1.48	45	0.357	2	1.46	0.573	0.35	<0.1	<0.01	0.5	<0.1	<0.05	5	<0.5	<0.2
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	0.3	2.8	5.1	0.29	4.3	2.3	5.01
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6		
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
ROCK-VAN	Prep Blank	6	2	0.44	53	0.075	1	0.95	0.092	0.08	<0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2

AQ300, AQ200

Package Description	Geochemical aqua regia digestion
Sample Digestion	HNO3-HCl acid digestion
Instrumentation Method	ICP-ES (AQ300, AQ200), ICP-MS (AQ200)
Legacy Code	1D, 1DX
Applicability	Sediment, Soil, Non-mineralized Rock and Drill Core

METHOD DESCRIPTION:

Prepared sample is digested with a modified Aqua Regia solution of equal parts concentrated HCl, HNO3 and DI H2O for one hour in a heating block or hot water bath. Sample is made up to volume with dilute HCl. Sample splits of 0.5g are analyzed optional 15g or 30g digestion available for AQ200.

Element	AQ300 Detection	AQ200 Detection	Upper Limit
Ag	0.3 ppm	0.1 ppm	100 ppm
Al*	0.01 %	0.01 %	10 %
As	2 ppm	0.5 ppm	10000 ppm
Au	-	0.5 ppb	100 ppm
B*^	20 ppm	20 ppm	2000 ppm
Ba*	1 ppm	1 ppm	10000 ppm
Bi	3 ppm	0.1 ppm	2000 ppm
Ca*	0.01 %	0.01 %	40 %
Cd	0.5 ppm	0.1 ppm	2000 ppm
Co	1 ppm	0.1 ppm	2000 ppm
Cr*	1 ppm	1 ppm	10000 ppm
Cu	1 ppm	0.1 ppm	10000 ppm
Fe*	0.01 %	0.01 %	40 %
Ga*	-	1 ppm	1000 ppm
Hg	1 ppm	0.01 ppm	50 ppm
K*	0.01 %	0.01 %	10 %
La*	1 ppm	1 ppm	10000 ppm
Mg*	0.01 %	0.01 %	30 %
Mn*	2 ppm	1 ppm	10000 ppm
Mo	1 ppm	0.1 ppm	2000 ppm

Element	AQ300 Detection	AQ200 Detection	Upper Limit
Na*	0.01 %	0.001 %	5 %
Ni	1 ppm	0.1 ppm	10000 ppm
P*	0.001 %	0.001 %	5 %
Pb	3 ppm	0.1 ppm	10000 ppm
S	0.05 %	0.05 %	10 %
Sb	3 ppm	0.1 ppm	2000 ppm
Sc	-	0.1 ppm	100 ppm
Se	-	0.5 ppm	100 ppm
Sr*	1 ppm	1 ppm	10000 ppm
Te	-	0.2 ppm	1000 ppm
Th*	2 ppm	0.1 ppm	2000 ppm
Ti*	0.01 %	0.001 %	5 %
Tl	5 ppm	0.1 ppm	1000 ppm
U*	8 ppm	0.1 ppm	2000 ppm
V*	1 ppm	2 ppm	10000 ppm
W*	2 ppm	0.1 ppm	100 ppm
Zn	1 ppm	1 ppm	10000 ppm

* Solubility of some elements will be limited by mineral species present. ^Detection limit = 1 ppm for 15g / 30g analysis.

Limitations:

Au solubility can be limited by refractory and graphitic samples.

SECTION E: SAMPLE LOCATIONS

- Soil Sample Locations and Descriptions
- Rock Chip Sample Locations and Descriptions

(All sample site coordinates recorded in UTM NAD83 Zone 10)

IMPERIAL METALS CORPORATION
GIANT COPPER PROPERTY: 2015 Geochemical Sampling / Soils

Sample Type	Sample ID	Sample Date	Sampler	Easting NAD83_10	Northing NAD83_10	Depth	Colour	Notes
B-Horizon	5200E+00	07-Jul-15	BE	645200	5447400	30	light-brown	On talus slope
B-Horizon	5200E+25	07-Jul-15	BE	645200	5447425	30	light-brown	On talus slope
B-Horizon	5200E+50	07-Jul-15	BE	645200	5447450	20	brown	On talus slope
B-Horizon	5200E+75	07-Jul-15	BE	645200	5447475	15	brown	On talus slope
B-Horizon	5200E+100	07-Jul-15	BE	645200	5447500	20	brown	On talus slope
B-Horizon	5200E+125	07-Jul-15	BE	645200	5447525	15	brown	On talus slope
B-Horizon	5200E+150							NO SAMPLE
B-Horizon	5200E+175							NO SAMPLE
B-Horizon	5200E+200	07-Jul-15	BE	645200	5447600	50	light-brown	Avalanche track
B-Horizon	5200E+225							NO SAMPLE
B-Horizon	5200E+250	07-Jul-15	BE	645200	5447650	25	dark-brown	Avalanche track
B-Horizon	5200E+275							NO SAMPLE
B-Horizon	5200E+300	07-Jul-15	BE	645200	5447700	40	dark-brown	Avalanche track
B-Horizon	5200E+325	07-Jul-15	BE	645200	5447725	5	light-brown	Avalanche track
B-Horizon	5200E+350	07-Jul-15	BE	645200	5447750	5	light-brown	Avalanche track
B-Horizon	5200E+375	07-Jul-15	BE	645200	5447775	5	light-brown	Avalanche track
B-Horizon	5200E+400	07-Jul-15	BE	645200	5447800	5	light-brown	In timber
B-Horizon	5200E+425	07-Jul-15	BE	645200	5447825	5	light-brown	In timber
B-Horizon	5200E+450	07-Jul-15	BE	645200	5447850	10	light-brown	In timber
B-Horizon	5200E+475	07-Jul-15	BE	645200	5447875	5	light-brown	In timber
B-Horizon	5200E+500	07-Jul-15	BE	645200	5447900	5	light-brown	In timber
B-Horizon	5200E+525	07-Jul-15	BE	645200	5447925	5	light-brown	In timber
B-Horizon	5200E+550	07-Jul-15	BE	645200	5447950	5	light-brown	In timber
B-Horizon	5200E+575	07-Jul-15	BE	645200	5447975	5	brown	In timber
B-Horizon	5200E+600	07-Jul-15	BE	645200	5448000	10	brown	In timber
B-Horizon	5200E+625	07-Jul-15	BE	645200	5448025	15	brown	In timber
B-Horizon	5200E+650	07-Jul-15	BE	645200	5448050	5	brown	In timber
B-Horizon	5200E+675	07-Jul-15	BE	645200	5448075	5	light-brown	In timber
B-Horizon	5200E+700	07-Jul-15	BE	645200	5448100	20	grey-brown	In timber
B-Horizon	5200E+725	07-Jul-15	BE	645200	5448125	5	grey-brown	In timber
B-Horizon	5200E+750	07-Jul-15	BE	645200	5448150	5	light-brown	In timber
B-Horizon	5200E+775	07-Jul-15	BE	645200	5448175	10	light-brown	In timber
B-Horizon	5200E+800							NO SAMPLE
B-Horizon	5200E+825							NO SAMPLE
B-Horizon	5200E+850							NO SAMPLE
B-Horizon	5200E+875							NO SAMPLE
B-Horizon	5200E+900							NO SAMPLE
B-Horizon	5200E+925							NO SAMPLE
B-Horizon	5200E+950	07-Jul-15	BE	645200	5448350	5	grey-brown	In timber
B-Horizon	5200E+975	07-Jul-15	BE	645200	5448375	5	grey	In timber
B-Horizon	5200E+1000	07-Jul-15	BE	645200	5448400	5	grey-brown	In timber
B-Horizon	5200E+1025	07-Jul-15	BE	645200	5448425	5	grey-brown	In timber
B-Horizon	5200E+1050	07-Jul-15	BE	645200	5448450	5	grey-brown	In timber
B-Horizon	5200E+1075	07-Jul-15	BE	645200	5448475	5	light-brown	In timber
B-Horizon	5200E+1100	07-Jul-15	BE	645200	5448500	5	light-brown	In timber
B-Horizon	5200E+1125	07-Jul-15	BE	645200	5448525	5	brown	In timber
B-Horizon	5200E+1150	07-Jul-15	BE	645200	5448550	5	brown	In timber
B-Horizon	5200E+1175	07-Jul-15	BE	645200	5448575	5	grey	In timber
B-Horizon	5200E+1200	07-Jul-15	BE	645200	5448600	15	red-brown	In timber
B-Horizon	5200E+1225	07-Jul-15	BE	645200	5448625	5	brown	In cutblock
B-Horizon	5200E+1250	07-Jul-15	BE	645200	5448650	5	brown	In cutblock
B-Horizon	5200E+1275	07-Jul-15	BE	645200	5448675	5	brown	In cutblock

B-Horizon	5200E+1300	07-Jul-15	BE	645200	5448700	30	dark-brown	In cutblock
B-Horizon	5300E+00	08-Jul-15	BE	645300	5447400	10	dark-brown	In timber
B-Horizon	5300E+25	08-Jul-15	BE	645300	5447425	15	dark-brown	In timber
B-Horizon	5300E+50	08-Jul-15	BE	645300	5447450	15	brown	In timber
B-Horizon	5300E+75	08-Jul-15	BE	645300	5447475	15	light-brown	In timber
B-Horizon	5300E+100	08-Jul-15	BE	645300	5447500	5	light-brown	In timber
B-Horizon	5300E+125	08-Jul-15	BE	645300	5447525	20	brown	In timber
B-Horizon	5300E+150	08-Jul-15	BE					NO SAMPLE
B-Horizon	5300E+175	08-Jul-15	BE	645300	5447575	35	brown	Avalanche track
B-Horizon	5300E+200	08-Jul-15	BE	645300	5447600	25	brown	Avalanche track
B-Horizon	5300E+225	08-Jul-15	BE	645300	5447625	35	dark-brown	Avalanche track
B-Horizon	5300E+250	08-Jul-15	BE	645300	5447650	30	dark-brown	Avalanche track
B-Horizon	5300E+275	08-Jul-15	BE	645300	5447675	30	dark-brown	Avalanche track
B-Horizon	5300E+300	08-Jul-15	BE	645300	5447700	30	brown	Avalanche track
B-Horizon	5300E+325	08-Jul-15	BE	645300	5447725	5	light-brown	In timber
B-Horizon	5300E+350	08-Jul-15	BE	645300	5447750	5	brown	In timber
B-Horizon	5300E+375	08-Jul-15	BE	645300	5447775	5	light-brown	In timber
B-Horizon	5300E+400	08-Jul-15	BE	645300	5447800	10	light-brown	In timber
B-Horizon	5300E+425	08-Jul-15	BE	645300	5447825	10	light-brown	In timber
B-Horizon	5300E+450	08-Jul-15	BE	645300	5447850	10	light-brown	In timber
B-Horizon	5300E+475	08-Jul-15	BE	645300	5447875	5	light-brown	In timber
B-Horizon	5300E+500	08-Jul-15	BE	645300	5447900	10	light-brown	In timber
B-Horizon	5300E+525	08-Jul-15	BE	645300	5447925	10	light-brown	In timber
B-Horizon	5300E+550	08-Jul-15	BE	645300	5447950	5	light-brown	In timber
B-Horizon	5300E+575	08-Jul-15	BE	645300	5447975	15	light-brown	In timber
B-Horizon	5300E+600	08-Jul-15	BE	645300	5448000	10	brown	In timber
B-Horizon	5300E+625	08-Jul-15	BE	645300	5448025	10	light-brown	In timber
B-Horizon	5300E+650	08-Jul-15	BE	645300	5448050	10	light-brown	In timber
B-Horizon	5300E+675	08-Jul-15	BE	645300	5448075	10	light-brown	In timber
B-Horizon	5300E+700	08-Jul-15	BE	645300	5448100	15	light-brown	In timber
B-Horizon	5300E+725	08-Jul-15	BE	645300	5448125	20	brown	In timber
B-Horizon	5300E+750	08-Jul-15	BE	645300	5448150	15	brown	In timber
B-Horizon	5300E+775	08-Jul-15	BE	645300	5448175	10	brown	In timber
B-Horizon	5300E+800	08-Jul-15	BE	645300	5448200	10	brown	In timber
B-Horizon	5300E+825	08-Jul-15	BE	645300	5448225	10	light-brown	In timber
B-Horizon	5300E+850	08-Jul-15	BE	645300	5448250	10	light-brown	In timber
B-Horizon	5300E+875	08-Jul-15	BE	645300	5448275	15	grey	In timber
B-Horizon	5300E+900	08-Jul-15	BE	645300	5448300	10	light-brown	In timber
B-Horizon	5300E+925	08-Jul-15	BE	645300	5448325	20	light-brown	In timber
B-Horizon	5300E+950	08-Jul-15	BE	645300	5448350	15	brown	In timber
B-Horizon	5300E+975	08-Jul-15	BE	645300	5448375	10	grey	In timber
B-Horizon	5300E+1000	08-Jul-15	BE	645300	5448400	15	light-brown	In timber
B-Horizon	5300E+1025	08-Jul-15	BE	645300	5448425	10	grey	In timber
B-Horizon	5300E+1050	08-Jul-15	BE	645300	5448450	10	brown	In timber
B-Horizon	5300E+1075	08-Jul-15	BE	645300	5448475	10	light-brown	In timber
B-Horizon	5300E+1100	08-Jul-15	BE	645300	5448500	10	light-brown	In timber
B-Horizon	5300E+1125	08-Jul-15	BE	645300	5448525	10	light-brown	In timber
B-Horizon	5300E+1150	08-Jul-15	BE	645300	5448550	10	brown	In timber
B-Horizon	5300E+1175	08-Jul-15	BE	645300	5448575	10	light-brown	In timber
B-Horizon	5300E+1200	08-Jul-15	BE	645300	5448600	15	light-brown	In timber
B-Horizon	5300E+1225	08-Jul-15	BE	645300	5448625	15	brown	In timber
B-Horizon	5300E+1250	08-Jul-15	BE	645300	5448650	10	light-brown	In timber
B-Horizon	5300E+1275							NO SAMPLE
B-Horizon	5300E+1300							NO SAMPLE
B-Horizon	5400E+00	08-Jul-15	PS	645400	5447400	20	light-brown	In timber
B-Horizon	5400E+25	08-Jul-15	PS	645400	5447425	15	light-brown	In timber
B-Horizon	5400E+50	08-Jul-15	PS	645400	5447450	7	light-brown	In timber
B-Horizon	5400E+75	08-Jul-15	PS	645400	5447475	20	brown	Avalanche track

B-Horizon	5400E+100	08-Jul-15	PS	645400	5447500	20	brown	Avalanche track
B-Horizon	5400E+125	08-Jul-15	PS	645400	5447525	20	brown	Avalanche track
B-Horizon	5400E+150	08-Jul-15	PS	645400	5447550	20	brown	Avalanche track
B-Horizon	5400E+175	08-Jul-15	PS	645400	5447575	10	light-brown	Avalanche track
B-Horizon	5400E+200	08-Jul-15	PS	645400	5447600	15	dark-brown	Avalanche track
B-Horizon	5400E+225	08-Jul-15	PS	645400	5447625	20	brown	Avalanche track
B-Horizon	5400E+250	08-Jul-15	PS	645400	5447650	30	dark-brown	Avalanche track
B-Horizon	5400E+275	08-Jul-15	PS	645400	5447675	10	grey	In timber
B-Horizon	5400E+300	08-Jul-15	PS	645400	5447700	35	dark-brown	In timber
B-Horizon	5400E+325	08-Jul-15	PS	645400	5447725	10	light-brown	In timber
B-Horizon	5400E+350	08-Jul-15	PS	645400	5447750	5	light-brown	In timber
B-Horizon	5400E+375	08-Jul-15	PS	645400	5447775	5	light-brown	In timber
B-Horizon	5400E+400	08-Jul-15	PS	645400	5447800	20	light-brown	In timber
B-Horizon	5400E+425	08-Jul-15	PS	645400	5447825	5	light-brown	In timber
B-Horizon	5400E+450	08-Jul-15	PS	645400	5447850	5	light-brown	In timber
B-Horizon	5400E+475	08-Jul-15	PS	645400	5447875	15	grey-brown	In timber
B-Horizon	5400E+500	08-Jul-15	PS	645400	5447900	5	light-brown	In timber
B-Horizon	5400E+525	08-Jul-15	PS	645400	5447925	5	light-brown	In timber
B-Horizon	5400E+550	08-Jul-15	PS	645400	5447950	15	light-brown	In timber
B-Horizon	5400E+575	08-Jul-15	PS	645400	5447975	10	light-brown	In timber
B-Horizon	5400E+600	08-Jul-15	PS	645400	5448000	5	light-brown	In timber
B-Horizon	5400E+625	08-Jul-15	PS	645400	5448025	5	light-brown	In timber
B-Horizon	5400E+650	08-Jul-15	PS	645400	5448050	7	light-brown	In timber
B-Horizon	5400E+675	08-Jul-15	PS	645400	5448075	15	grey-brown	In timber
B-Horizon	5400E+700	08-Jul-15	PS	645400	5448100	20	grey-brown	In timber
B-Horizon	5400E+725	08-Jul-15	PS	645400	5448125	20	grey-brown	In timber
B-Horizon	5400E+750							NO SAMPLE
B-Horizon	5400E+775							NO SAMPLE
B-Horizon	5400E+800	08-Jul-15	PS	645400	5448200	20	grey-brown	In timber
B-Horizon	5400E+825	08-Jul-15	PS	645400	5448225	7	grey	In timber
B-Horizon	5400E+850	08-Jul-15	PS	645400	5448250	5	grey-brown	In timber
B-Horizon	5400E+875	08-Jul-15	PS	645400	5448275	7	grey-brown	In timber
B-Horizon	5400E+900	08-Jul-15	PS	645400	5448300	5	grey	In timber
B-Horizon	5400E+925	08-Jul-15	PS	645400	5448325	5	light-brown	In timber
B-Horizon	5400E+950	08-Jul-15	PS	645400	5448350	10	grey-brown	In timber
B-Horizon	5400E+975	08-Jul-15	PS	645400	5448375	5	grey-brown	In timber
B-Horizon	5400E+1000	08-Jul-15	PS	645400	5448400	10	light-brown	In timber
B-Horizon	5400E+1025	08-Jul-15	PS	645400	5448425	5	light-brown	In timber
B-Horizon	5400E+1050	08-Jul-15	PS	645400	5448450	5	brown	In timber
B-Horizon	5400E+1075	08-Jul-15	PS	645400	5448475	10	light-brown	In timber
B-Horizon	5400E+1100	08-Jul-15	PS	645400	5448500	10	grey-brown	In timber
B-Horizon	5400E+1125	08-Jul-15	PS	645400	5448525	15	grey-brown	In timber
B-Horizon	5400E+1150	08-Jul-15	PS	645400	5448550	10	brown	In timber
B-Horizon	5400E+1175	08-Jul-15	PS	645400	5448575	15	brown	In timber
B-Horizon	5400E+1200	08-Jul-15	PS	645400	5448600	15	brown	In timber
B-Horizon	5400E+1225	08-Jul-15	PS	645400	5448625	10	brown	In timber
B-Horizon	5400E+1250	08-Jul-15	PS	645400	5448650	15	brown	In timber
B-Horizon	5400E+1275	08-Jul-15	PS	645400	5448675	20	grey	In timber
B-Horizon	5400E+1300	08-Jul-15	PS	645400	5448700	10	light-brown	In timber
B-Horizon	5500E+00	09-Jul-15	PS	645500	5447400	35	brown	Avalanche track
B-Horizon	5500E+25	09-Jul-15	PS	645500	5447425	20	brown	Avalanche track
B-Horizon	5500E+50	09-Jul-15	PS	645500	5447450	25	brown	Avalanche track
B-Horizon	5500E+75	09-Jul-15	PS	645500	5447475	10	grey-brown	Avalanche track
B-Horizon	5500E+100	09-Jul-15	PS	645500	5447500			NO SAMPLE
B-Horizon	5500E+125	09-Jul-15	PS	645500	5447525			NO SAMPLE
B-Horizon	5500E+150	09-Jul-15	PS	645500	5447550	5	brown	Avalanche track
B-Horizon	5500E+175	09-Jul-15	PS	645500	5447575	10	light-brown	Avalanche track
B-Horizon	5500E+200	09-Jul-15	PS	645500	5447600	5	brown	Avalanche track

B-Horizon	5500E+225	09-Jul-15	PS	645500	5447625	5	light-brown	In timber
B-Horizon	5500E+250	09-Jul-15	PS	645500	5447650	10	brown	In timber
B-Horizon	5500E+275	09-Jul-15	PS	645500	5447675	15	brown	In timber
B-Horizon	5500E+300	09-Jul-15	PS	645500	5447700	7	brown	In timber
B-Horizon	5500E+325	09-Jul-15	PS	645500	5447725	5	brown	In timber
B-Horizon	5500E+350	09-Jul-15	PS	645500	5447750	3	grey-brown	In timber
B-Horizon	5500E+375	09-Jul-15	PS	645500	5447775	10	brown	In timber
B-Horizon	5500E+400	09-Jul-15	PS	645500	5447800	15	brown	In timber
B-Horizon	5500E+425	09-Jul-15	PS	645500	5447825	5	grey-brown	In timber
B-Horizon	5500E+450	09-Jul-15	PS	645500	5447850	10	grey-brown	In timber
B-Horizon	5500E+475	09-Jul-15	PS	645500	5447875	5	brown	In timber
B-Horizon	5500E+500	09-Jul-15	PS	645500	5447900	7	grey-brown	In timber
B-Horizon	5500E+525	09-Jul-15	PS	645500	5447925	10	brown	In timber
B-Horizon	5500E+550	09-Jul-15	PS	645500	5447950	10	brown	In timber
B-Horizon	5500E+575	09-Jul-15	PS	645500	5447975	20	brown	In timber
B-Horizon	5500E+600	09-Jul-15	PS	645500	5448000	25	light-brown	In timber
B-Horizon	5500E+625	09-Jul-15	PS	645500	5448025	5	light-brown	In timber
B-Horizon	5500E+650	09-Jul-15	PS	645500	5448050	30	grey	In timber
B-Horizon	5500E+675	09-Jul-15	PS	645500	5448075	15	grey-brown	In timber
B-Horizon	5500E+700	09-Jul-15	PS	645500	5448100	20	brown	In timber
B-Horizon	5500E+725	09-Jul-15	PS	645500	5448125	3	light-brown	In timber
B-Horizon	5500E+750	09-Jul-15	PS	645500	5448150	5	light-brown	In timber
B-Horizon	5500E+775	09-Jul-15	PS	645500	5448175	15	grey-brown	In timber
B-Horizon	5500E+800	09-Jul-15	PS	645500	5448200	2	brown	In timber
B-Horizon	5500E+825	09-Jul-15	PS	645500	5448225	10	brown	In timber
B-Horizon	5500E+850	09-Jul-15	PS	645500	5448250	10	brown	In timber
B-Horizon	5500E+875	09-Jul-15	PS	645500	5448275	15	light-brown	In timber
B-Horizon	5500E+900	09-Jul-15	PS	645500	5448300	20	grey-brown	In timber
B-Horizon	5500E+925	09-Jul-15	PS	645500	5448325	30	brown	In timber
B-Horizon	5500E+950	09-Jul-15	PS	645500	5448350	7	brown	In timber
B-Horizon	5500E+975	09-Jul-15	PS	645500	5448375	5	dark-brown	In timber
B-Horizon	5500E+1000	09-Jul-15	PS	645500	5448400	15	grey-brown	In timber
B-Horizon	5500E+1025	09-Jul-15	PS	645500	5448425	10	grey	In timber
B-Horizon	5500E+1050	09-Jul-15	PS	645500	5448450	5	light-brown	In timber
B-Horizon	5500E+1075	09-Jul-15	PS	645500	5448475	5	grey-brown	In timber
B-Horizon	5500E+1100	09-Jul-15	PS	645500	5448500	5	grey-brown	In timber
B-Horizon	5500E+1125	09-Jul-15	PS	645500	5448525	15	grey	In timber
B-Horizon	5500E+1150	09-Jul-15	PS	645500	5448550	5	brown	In timber
B-Horizon	5500E+1175	09-Jul-15	PS	645500	5448575	2	brown	In timber
B-Horizon	5500E+1200	09-Jul-15	PS	645500	5448600	3	grey-brown	In timber
B-Horizon	5500E+1225	09-Jul-15	PS	645500	5448625	15	light-brown	In timber
B-Horizon	5500E+1250	09-Jul-15	PS	645500	5448650	20	brown	On old road
B-Horizon	5500E+1275	09-Jul-15	PS	645500	5448675	10	brown	Below old road
B-Horizon	5500E+1300	09-Jul-15	PS	645500	5448700	5	light-brown	On old landing area
B-Horizon	GC15+00	09-Jul-15	BE	645182	5448843	10	yellow-brown	From bank above road
B-Horizon	GC15+25	09-Jul-15	BE	645206	5448854	5	yellow-brown	From bank above road
B-Horizon	GC15+50	09-Jul-15	BE	645225	5448863	10	brown	From bank above road
B-Horizon	GC15+75	09-Jul-15	BE	645246	5448878	20	brown	From bank above road
B-Horizon	GC15+100	09-Jul-15	BE	645267	5448891	10	brown	From bank above road
B-Horizon	GC15+125	09-Jul-15	BE	645286	5448904	15	light-brown	From bank above road, minor sed gossan float
B-Horizon	GC15+150	09-Jul-15	BE	645305	5448915	15	light-brown	From bank above road
B-Horizon	GC15+175	09-Jul-15	BE	645326	5448934	5	light-brown	From bank above road
B-Horizon	GC15+200	09-Jul-15	BE	645351	5448944	10	brown	From bank above road
B-Horizon	GC15+225	09-Jul-15	BE	645374	5448959	10	brown	From bank above road
B-Horizon	GC15+250	09-Jul-15	BE	645391	5448974	20	brown	From bank above road
B-Horizon	GC15+275	09-Jul-15	BE	645422	5448983	10	brown	From bank above road

B-Horizon	GC15+300	09-Jul-15	BE	645451	5448988	2	light-brown	From bank above road, weakly gossanous siltstone
B-Horizon	GC15+325	09-Jul-15	BE	645466	5449009	20	light-brown	From bank above road, weak vein bx and sulphide in siltstone
B-Horizon	GC15+350	09-Jul-15	BE	645496	5449013	10	light-brown	From bank above road
B-Horizon	GC15+375	09-Jul-15	BE	645522	5449030	5	light-brown	From bank above road, seds with weak iron staining
B-Horizon	GC15+400	09-Jul-15	BE	645545	5449028	5	light-brown	From bank above road
B-Horizon	GC15+425	09-Jul-15	BE	645576	5449039	10	light-brown	From bank above road
B-Horizon	GC15+450	09-Jul-15	BE	645591	5449055	5	light-brown	From bank above road
B-Horizon	GC15+475	09-Jul-15	BE	645614	5449064	5	light-brown	From bank above road, weakly gossanous seds
B-Horizon	GC15+500	09-Jul-15	BE	645637	5449084	5	light-brown	From bank above road
B-Horizon	GC15+525	09-Jul-15	BE	645658	5449100	10	light-brown	From bank above road
B-Horizon	GC15+550	09-Jul-15	BE	645679	5449117	10	light-brown	From bank above road, gossanous seds
B-Horizon	GC15+575	09-Jul-15	BE	645694	5449138	10	light-brown	From bank above road, weakly gossanous seds
B-Horizon	GC15+600	09-Jul-15	BE	645618	5448884	5	light-brown	From bank above road, below old core farm
B-Horizon	GC15+625	09-Jul-15	BE	645646	5448898	15	light-brown	From bank above road
B-Horizon	GC15+650	09-Jul-15	BE	645662	5448910	10	light-brown	From bank above road
B-Horizon	GC15+675	09-Jul-15	BE	645693	5448922	10	light-brown	From bank above road
B-Horizon	GC15+700	09-Jul-15	BE	645713	5448937	10	light-brown	From bank above road, quartz-sulphide vein float nearby
B-Horizon	GC15+725	09-Jul-15	BE	645738	5448947	10	light-brown	From bank above road
B-Horizon	GC15+750	09-Jul-15	BE	645770	5448960	5	light-brown	From bank above road
B-Horizon	GC15+775	09-Jul-15	BE	645784	5448970	5	light-brown	From bank above road
B-Horizon	GC15+800	09-Jul-15	BE	645809	5448975	5	light-brown	From bank above road
B-Horizon	GC15+825	09-Jul-15	BE	645845	5448989	5	light-brown	From bank above road
B-Horizon	GC15+850	09-Jul-15	BE	645870	5448996	10	light-brown	From bank above road
B-Horizon	GC15+875	09-Jul-15	BE	645882	5449035	10	light-brown	From bank above road
B-Horizon	GC15+900	09-Jul-15	BE	645899	5449071	5	light-brown	From bank above road
B-Horizon	GC15+925	09-Jul-15	BE	645911	5449094	5	light-brown	From bank above road
B-Horizon	GC15+950	09-Jul-15	BE	645931	5449105	5	light-brown	From bank above road
B-Horizon	GC15+975	09-Jul-15	BE	645955	5449112	5	brown	From bank above road
B-Horizon	GC15+1000	09-Jul-15	BE	645975	5449123	5	light-brown	From bank above road
B-Horizon	GC15+1025	09-Jul-15	BE	645997	5449146	10	light-brown	From bank above road
B-Horizon	GC15+1050	09-Jul-15	BE	646016	5449162	15	light-brown	From bank above road
B-Horizon	GC15+1075	09-Jul-15	BE	646042	5449170	20	brown	From bank above road
B-Horizon	GC15+1100	09-Jul-15	BE	646059	5449187	5	light-brown	From bank above road

IMPERIAL METALS CORPORATION
GIANT COPPER PROPERTY: 2015 Geochemical Sampling / Rocks

Sample Type	Sample ID	Sample Date	Sampler	Easting NAD83_10	Northing NAD83_10	Lithology	Alteration Int_Style	Mineralisation	Veining	Description
RCK-OUT	780979	08-Jul-15	BE	645400	5448175	SST	wk ox	slf		Cherty siltstone, weakly gossanous affter sulphide weathering
RCK-OUT	780980	08-Jul-15	BE	645400	5448600	SST	wk ox	slf		Gossanous siltstone/sandstone
RCK-FLT	780981	10-Jul-15	BE	645710	5448935	VQZ	st ox	slf	qtz-slf	Gossanous quartz-sulphide vein, highly weathered float

SECTION F: ILLUSTRATIONS

Plan Number	Title	Scale
GC-15-1 (after p.2)	BC Location Plan	1:8 000 000
GC-15-2 (after p.2)	General Location Plan	1:350 000
GC-15-3 (after p.2)	Mineral Tenures Plan	1:45 000
GC-15-4 (after p.7)	Property Geology Plan	1:50 000
GC-15-5 (in pocket)	Geology Plan	1:10 000
GC-15-6 (in pocket)	2015 Sample Locations	1:5 000
GC-15-7 (in pocket)	2015 Rock Sampling: Cu (ppm)	1:5 000
GC-15-8 (in pocket)	2015 Rock Sampling: Pb (ppm)	1:5 000
GC-15-9 (in pocket)	2015 Rock Sampling: Zn (ppm)	1:5 000
GC-15-10 (in pocket)	2015 Rock Sampling: Au (ppb)	1:5 000

640000 641000 642000 643000 644000 645000 646000 647000

5453000 5452000 5451000 5450000 5449000 5448000 5447000 5446000 5445000 5444000

N
W E
S

Camp

2015
WORK
AREA

0 250 500 1,000 1,500 2,000
Meters

Imperial Metals

IMPERIAL METALS CORPORATION

GIANT COPPER PROPERTY

New Westminster Mining Division

Geology Plan

GEOLOGY

- Sandstone
- Siltstone
- Metasiltstone
- Chert
- Quartzite
- Pyroxene Dyke
- Gabbro
- Andesite
- Diorite
- Breccias
- Quartzite Breccia
- Chert Breccia
- Fault
- Contact
- Highway 3
- Secondary Road
- Property Main Access Road
- Property Roads
- Claim Boundary
- 2015 Work Area
- Provincial Park
- 40m Contour Line
- Adit

Date: April 2016	UTM Zone 10, NAD 83	Figure.
Scale: 1:10,000	NTS: 092H02/03	GC-15-5
Drawn By: MD	BCGS: 092H015/016	

645000

646000

5449000

5448000

N

W

E

S

GC15+1100
GC15+1075
GC15+1050
GC15+1025
GC15+1000
GC15+975
GC15+950
GC15+925
GC15+900
GC15+875
GC15+850
GC15+825
GC15+800
GC15+775
GC15+750
GC15+725
GC15+700
780981
GC15+675
GC15+650
GC15+625
GC15+600
GC15+575
GC15+550
GC15+525
GC15+500
GC15+475
GC15+450
GC15+425
GC15+400
GC15+375
GC15+350
GC15+325
GC15+300
GC15+275
GC15+250
GC15+225
GC15+200
GC15+175
GC15+150
GC15+125
GC15+100
GC15+75
GC15+50
GC15+25
GC15+00

5200E+1300 5300E+1300 5400E+1300 5500E+1300
5200E+1275 5300E+1275 5400E+1275 5500E+1275
5200E+1250 5300E+1250 5400E+1250 5500E+1250
5200E+1225 5300E+1225 5400E+1225 5500E+1225
5200E+1200 5300E+1200 5400E+1200 780980 5500E+1200
5200E+1175 5300E+1175 5400E+1175 5500E+1175
5200E+1150 5300E+1150 5500E+1150
5200E+1125 5300E+1125 5400E+1125 5500E+1125
5200E+1100 5300E+1100 5400E+1100 5500E+1100
5200E+1075 5300E+1075 5400E+1075 5500E+1075
5200E+1050 5300E+1050 5400E+1050 5500E+1050
5200E+1025 5300E+1025 5400E+1025 5500E+1025
5200E+1000 5300E+1000 5400E+1000 5500E+1000
5200E+975 5300E+975 5400E+975 5500E+975
5200E+950 5300E+950 5400E+950 5500E+950
5300E+925 5400E+925 5500E+925
5300E+900 5400E+900 5500E+900
5300E+875 5400E+875 5500E+875
5300E+850 5400E+850 5500E+850
5300E+825 5400E+825 5500E+825
5300E+800 5400E+800 5500E+800
5200E+775 5300E+775 780979 5500E+775
5200E+750 5300E+750 5500E+750
5200E+725 5300E+725 5400E+725 5500E+725
5200E+700 5300E+700 5400E+700 5500E+700
5200E+675 5300E+675 5400E+675 5500E+675
5200E+650 5300E+650 5400E+650 5500E+650
5200E+625 5300E+625 5400E+625 5500E+625
5200E+600 5300E+600 5400E+600 5500E+600
5200E+575 5300E+575 5400E+575 5500E+575
5200E+550 5300E+550 5400E+550 5500E+550
5200E+525 5300E+525 5400E+525 5500E+525
5200E+500 5300E+500 5400E+500 5500E+500
5200E+475 5300E+475 5400E+475 5500E+475
5200E+450 5300E+450 5400E+450 5500E+450
5200E+425 5300E+425 5400E+425 5500E+425
5200E+400 5300E+400 5400E+400 5500E+400
5200E+375 5300E+375 5400E+375 5500E+375
5200E+350 5300E+350 5400E+350 5500E+350
5200E+325 5300E+325 5400E+325 5500E+325
5200E+300 5300E+300 5400E+300 5500E+300
5300E+275 5400E+275 5500E+275
5200E+250 5300E+250 5400E+250 5500E+250
5300E+225 5400E+225 5500E+225
5200E+200 5300E+200 5400E+200 5500E+200
5300E+175 5400E+175 5500E+175
5400E+150 5500E+150
5200E+125 5300E+125 5400E+125
5200E+100 5300E+100 5400E+100
5200E+75 5300E+75 5400E+75 5500E+75
5200E+50 5300E+50 5400E+50 5500E+50
5200E+25 5300E+25 5400E+25 5500E+25
5200E+00 5300E+00 5400E+00 5500E+00

1680
1280
1320
1360
1400
1520
1480
1440
1560
1640
1800
1760
1600

0 100 200 400 Metres

2015 Soil Sample Location
2015 Rock Sample Location
Giant Copper Claim Boundary
Gravel Road
40m contour line
Provincial Park

Imperial Metals

IMPERIAL METALS CORPORATION

GIANT COPPER PROPERTY

New Westminster Mining Division

2015 Soil Sample Locations

Date: April 2016	UTM Zone 10, NAD83	Figure: GC-15-6
Scale: 1:2,500	BCGS: 092H015, 016, 025	
Drawn By: MD	NTS: 092H02/03	

645000

646000

5449000

5448000

N

W

E

S

0 100 200 400 Metres

2015 Soil Sampling
Cu (ppm)
- 0 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200

2015 Rock Sampling
Cu (ppm)
- 0 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200

- Giant Copper Claim Boundary
- Gravel Road
- 40m contour line
- Provincial Park

Imperial Metals

IMPERIAL METALS CORPORATION

GIANT COPPER PROPERTY

New Westminster Mining Division

2015 Soil and Rock Sampling: Cu (ppm)

Date: April 2016	UTM Zone 10, NAD83	Figure: GC-15-7
Scale: 1:2,500	BCGS: 092H015, 016, 025	
Drawn By: MD	NTS: 092H02/03	

645000

646000

5449000

5448000

N

W

E

S

1680

1280

1320

1360

1400

1520

1480

1440

1560

1600

1640

1680

1760

1600

23.9
28.5
23.4
32.1
31.6
17.3
42
33.8
33.9
24.3
17.9
17.7
17.9
17.7
35.1
29.1
37.6
456.8
28.5
28.5
21.2
32.6
66.4
53.2
87.1
34.7
39.5
38.8
37.8
78.6
62
89.1
175.2
161.1
59.8
55.1
74.9
40.7
33.4
22.1
50.7
33.5
41.7
36.4
41.7
191.5

34.2
31.5
43.9
31.3
23.7
13
23.8
21.2
17.4
18.8
20
26
22.1
16.7
31.7

24.8
8.7
23.9
20.6
26.9
16.9
16.7
18.5
22.6
28.4
20.4
106
58
32.7
15.7
17.7
10.3
8.5
30.2
27.6
35.4
27.5

247.4
185.6
42.9
27.3
17.3
116
58.2
8.5
29.5
9
26.6
8.3
10.6
31
34
135.8
26.6
41
30.9
73
37
28.7
68.2
59
124.9
88.7
68.7
157.7
25.1
54.8
452.7
58.2
42.6
65.5
21.8
36
17
16.4
15.7
20.4
25.1
11.1
20
17.1
8.9
12.5
9.6

40.9
92.3
43.4
34
47.2
49.6
32.3
35.7
53.6
75.5
41.5
55.5
62.6
71.7
43.8
29.4
39.8
41
45.9
30.6

24.1
40.2
40.5
44
53.8
94.5
39.1
37.8
75.1
32.6
33
51
64.7
42.3
24.2
21.8
23.8
28.3
28.8
36.2
28.6
31.5
25.6
21.8
14.8
28.8
23.4
32.7
10.6
17.4
14.5

34.7
13

19.8
11.9
16.7
17
18.2
12.7

12
13.2
15.4
7
11.1
13.5
8.7
13.8
35
9.4
29.3
8.1
9.7
41
39.5
22.6
20
29.6
24.6

13.2
20.6
26.9
16.7
18.5
22.6
28.4
20.4
106
58
32.7
15.7
17.7
10.3
8.5
30.2
27.6
35.4
27.5
16.5
58.2
108.3
53.6
57.1
47.5
23.9
40.2
50.3
55.4
33.9
36.6
13.8
28.3
20.2
32.4
14.8
25.5
29.8
18.8
13.6
15.8
10.4
22.6
14.4

0 100 200 400 Metres

2015 Soil Sampling
Pb (ppm)
- 0 - 100
- 100 - 200
- 200 - 300
- 300 - 400
- > 400

2015 Rock Sampling
Pb (ppm)
- 0 - 100
- 100 - 200
- 200 - 300
- 300 - 400
- > 400

- Giant Copper Claim Boundary
- Gravel Road
- 40m contour line
- Provincial Park

Imperial Metals

IMPERIAL METALS CORPORATION

GIANT COPPER PROPERTY

New Westminster Mining Division

2015 Soil and Rock Sampling: Pb (ppm)

Date: April 2016	UTM Zone 10, NAD83	Figure: GC-15-8
Scale: 1:2,500	BCGS: 092H015, 016, 025	
Drawn By: MD	NTS: 092H02/03	

645000

646000

5449000

5448000

N

W

E

S

0 100 200 400 Metres

2015 Soil Sampling
Zn (ppm)
- 0 - 200
- 200 - 400
- 400 - 600
- 600 - 800
- > 800

2015 Rock Sampling
Zn (ppm)
- 0 - 200
- > 200

- Giant Copper Claim Boundary
- Gravel Road
- 40m contour line
- Provincial Park

Imperial Metals

IMPERIAL METALS CORPORATION

GIANT COPPER PROPERTY

New Westminster Mining Division

2015 Soil and Rock Sampling: Zn (ppm)

Date: April 2016	UTM Zone 10, NAD83	Figure: GC-15-9
Scale: 1:2,500	BCGS: 092H015, 016, 025	
Drawn By: MD	NTS: 092H02/03	

645000

646000

5449000

5448000

N

W

E

S

1680

1280

1320

1360

1400

1520

1480

1440

1560

1800

1640

1760

1600

0 100 200 400 Metres

2015 Soil Sampling
Au (ppb)
- 0 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- > 200

2015 Rock Sampling
Au (ppb)
- 0 - 50
- 50 - 100
- > 100

Giant Copper Claim Boundary

Gravel Road

40m contour line

Provincial Park

Imperial Metals

IMPERIAL METALS CORPORATION

GIANT COPPER PROPERTY

New Westminster Mining Division

2015 Soil and Rock Sampling: Au (ppb)

Date: April 2016	UTM Zone 10, NAD83	Figure: GC-15-10
Scale: 1:2,500	BCGS: 092H015, 016, 025	
Drawn By: MD	NTS: 092H02/03	