



BC Geological Survey
Assessment Report
37477



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: \$35,638.72

AUTHOR(S): Bill Fischer, M.Sc.

SIGNATURE(S): *Bill Fischer*

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

YEAR OF WORK: 2017

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5686480 / February 19, 2018

PROPERTY NAME: BEAR

CLAIM NAME(S) (on which the work was done): 512324, 512329, 512330

COMMODITIES SOUGHT: Cu, Mo

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 094D 003, 094D 068, 094D 103

MINING DIVISION: Omineca

NTS/BCGS: 94D/02W / 093M097, 094D006, 007, 016

LATITUDE: 56 ° 04 ' 48.3 " LONGITUDE: 126 ° 53 ' 24.7 " (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 Bear property is mostly underlain by Jurassic Hazelton Group, dominantly felsic to intermediate volcanic rock comprised of crystal lithic tuffs, volcanoclastic greywacke, vesicular andesite flows and rhyolite flows. Mafic volcanic strata exposed on the eastern half of the property are possibly of the Upper Triassic Takla Group. The volcanic strata have been intruded by a multiphase Eocene Kastberg stock. Several phases of the intrusive and adjacent volcanic rocks host Cu-Mo mineralization.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 04648, 05236, 05269, 08335, 09534, 10369, 24771, 27851, 29093, 29980, 36081

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 103 samples / 36 element ICP-ES / MS		512324, 512329, 512330	\$31,438.12
Silt			
Rock			
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying 103 samples/36 element ICP-ES / MS		512324, 512329, 512330	\$2,374.80
Petrographic			
Mineralographic			
Metallurgical			
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 preparation, program administration		512324, 512329, 512330	\$1,825.80
TOTAL COST:			\$35,638.72

**GEOCHEMICAL SAMPLING REPORT
2017 EXPLORATION PROGRAM**

on the

BEAR PROPERTY

Tenure Numbers 512324, 512329 & 512330

Bear Lake, B.C.

Omineca Mining Division

NTS: 94D/02W

BCGS: 094D006

Latitude: 56° 04.8' N; Longitude: 126° 53.4' W

UTM (NAD 83, Zone 9N): 631 300 E; 6 217 000 N

Owner / Operator:



Imperial Metals Corporation
200 - 580 Hornby Street
Vancouver, BC Canada V6C 3B6
www.imperialmetals.com

Bill Fischer, M.Sc.

May 15, 2018

TABLE OF CONTENTS

	Section	Title	Page
A	Report	Introduction	3
		Property	3
		Location and Access	3
		Climate, Topography and Vegetation	7
		History	7
		Regional Geology	8
		Property Geology	8
		2017 Geochemical Sampling Program	12
		Conclusions	14
		Recommendations	14
		Statement of Qualifications	15
		List of References	16
B	Property	Schedule of Mineral Tenures	18
C	Expenditures	Statement of Expenditures	19
D	Analytical Reports	Bureau Veritas Mineral Laboratories, Canada:	20
		- Certificates of Analysis (1 report)	
		- Statement of Analytical Procedures (1 data sheet)	
E	Sampling Data	Soil Sample Locations and Descriptions	21
F	Illustrations		
	Figure Number	Title	Scale
	BE-2017-1 (p.4)	BC Location Plan	1:8 000 000
	BE-2017-2 (p.5)	General Location Plan	1:1 250 000
	BE-2017-3 (p.6)	Mineral Tenure	1:90 000
	BE-2017-4 (p.9)	Regional Geology	1: 200 000
	BE-2017-5 (in pocket)	2017 Soil Sample Locations	1:5 000
	BE-2017-6 (in pocket)	2017 Soil Sampling : Cu (ppm)	1:5 000
	BE-2017-7 (in pocket)	2017 Soil Sampling: Mo (ppm)	1:5 000
	BE-2017-8 (in pocket)	2017 Soil Sampling: Zn (ppm)	1:5 000
	BE-2017-9 (in pocket)	2017 Soil Sampling: Au (ppb)	1:5 000

SECTION A: REPORT

INTRODUCTION:

The Bear property is host to a copper-molybdenum mineralized porphyry system. The property is located 150 km north-northeast of Smithers, B. C. There is road access to within approximately 15 km of the main drilled area by using the numerous main and secondary forest service access roads.

It was the goal of the 2017 exploration program to establish new surface targets for Cu-Mo porphyry mineralization by focusing exploration efforts on the magnetic anomalies from the 2006 Aeroquest airborne survey that are located below the tree line. Soil samples were collected along lines bisecting the center of the magnetic anomalies to identify any geochemical anomalies associated with mineralization at depth.

PROPERTY:

The Bear Property is comprised of 14 mineral tenures totalling 388 cells covering an area of 7,006.23 ha. The claims are located in the Omineca Mining Division and a 100% interest is held by Imperial Metals Corporation. The property is subject to a 1.5% Net Smelter Return royalty in favour of Mr. Gerald Ryznar, the original vendor of the property. The claim tenures are shown on Figure BE-2017-3. A Schedule of Mineral Tenures is appended in Section B. The good to dates therein are based on the Statement of Exploration and Development Work registered on February 19, 2018 as Event #5686480 and assume that this report will be accepted for assessment purposes. The claims have not been surveyed.

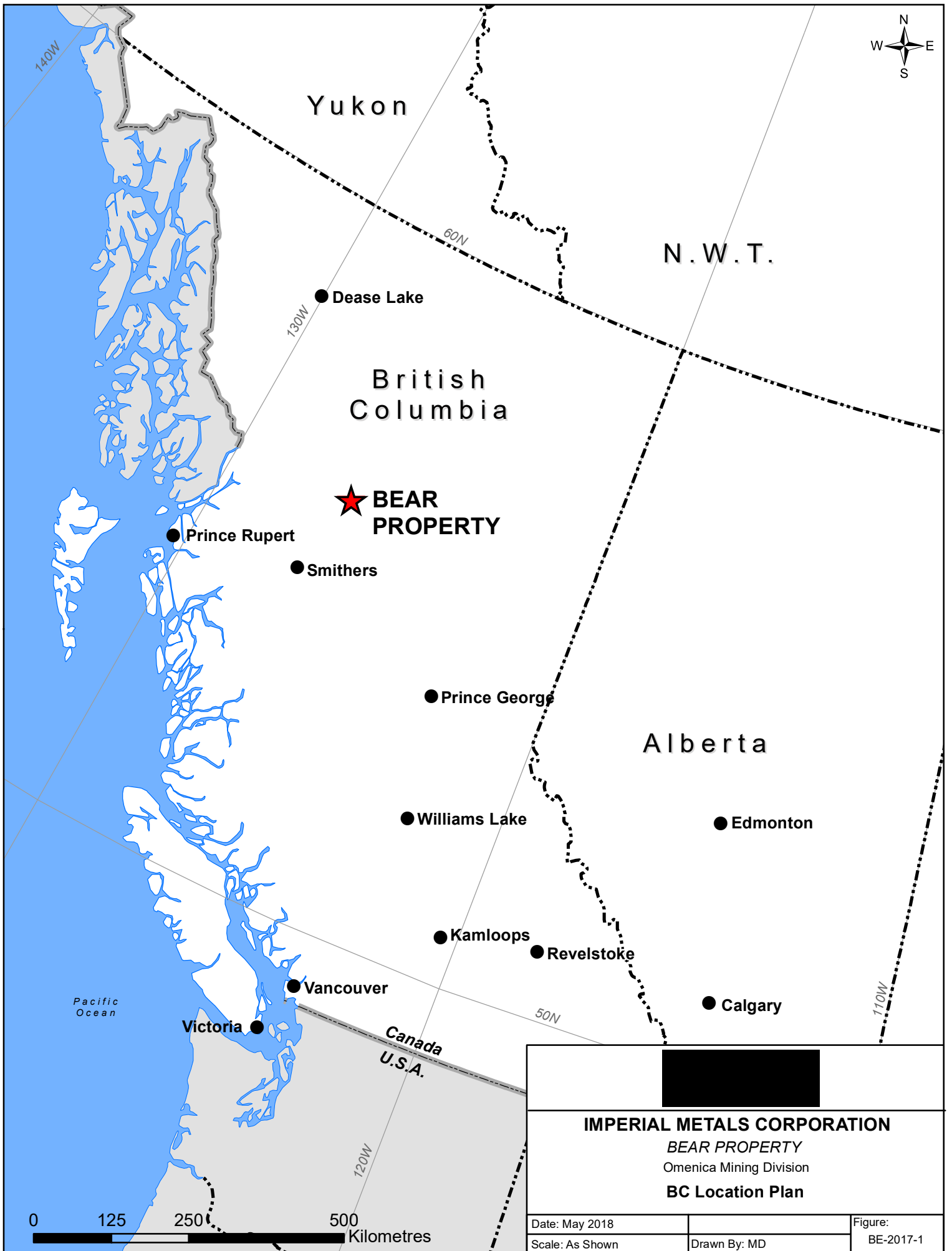
LOCATION AND ACCESS:

The Bear Property is located in northern British Columbia, 150 km north-northeast of the Town of Smithers, BC and is centered at geographic coordinates latitude 56° 06.5' N and longitude 126° 51.5' W (Figure BE-2017-2). The UTM coordinates are 6 220 170N and 632 210E, NAD 83, Zone 9N. It is situated on NTS map sheets 93M/15W and 94D/2W and BCGS map sheets 93M097, 94D006, 007 and 016 in the Omineca Mining Division. The claim group is located along the western shore of Bear Lake some 55 km northwest of Takla Lake.

The 2017 geochemical sampling was conducted on the west central area of the property on tenures 512324, 512329 and 512330 and was centered at latitude 56° 04.8' N and longitude 126° 53.4' W. UTM coordinates are 6 217 000 N and 631 300 E, NAD 83, Zone 9N .

Currently there are two options for accessing the the Bear Property, road or floatplane, but both then require the use of helicopter support as the final means of transport to the mineralized zone on tenure 512306 which is situated at elevations up to 1,000 m above the level of Bear Lake.

Access by road is from Fort St. James, roughly 300 km to the southeast, via the Driftwood Forest Service Road, a good, all season gravel road. The Driftwood FSR ends at the Driftwood River Bridge, 15 km southeast of the main zone on the property. Just before the bridge there is a large staging area available to transfer gear from truck to helicopter. A road could easily be constructed from the end Driftwood FSR to the main area Bear Property. A series of inclined benches that climb gently as you proceed north from the end of the Driftwood FSR would facilitate the road building.



Yukon

N.W.T.

British Columbia

★ BEAR PROPERTY

Alberta

Canada
U.S.A.



IMPERIAL METALS CORPORATION
BEAR PROPERTY
 Omica Mining Division
BC Location Plan

0 125 250 500 Kilometres

Date: May 2018
 Scale: As Shown

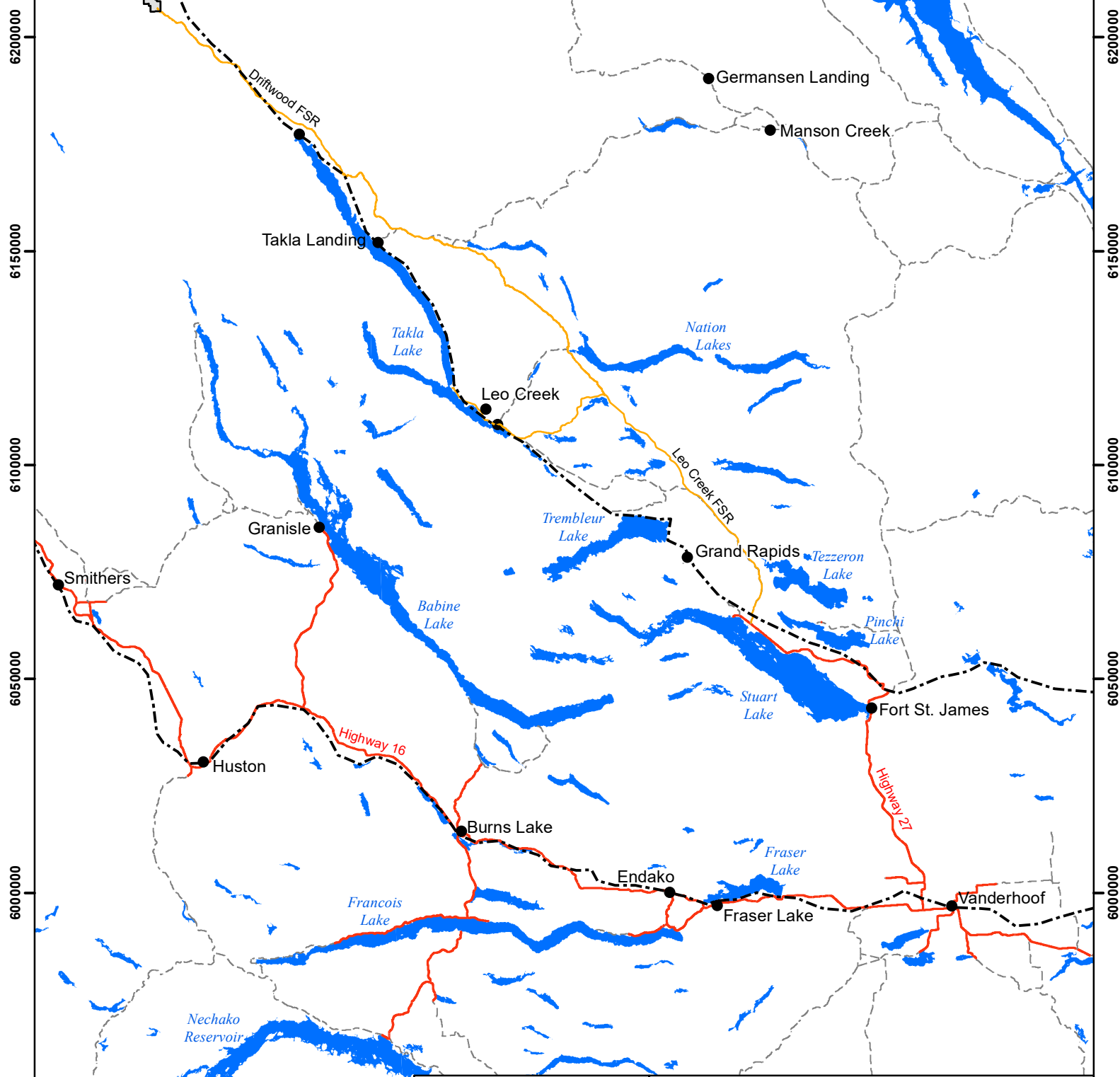
Drawn By: MD

Figure:
 BE-2017-1

650000 700000 750000 800000 850000



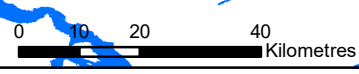
BEAR PROPERTY



6200000
6150000
6100000
6050000
6000000
5950000

6200000
6150000
6100000
6050000
6000000
5950000

- Paved Road
- - - Gravel Road
- Forest Service Road (Gravel)
- - - - Railway (BCR)



IMPERIAL METALS CORPORATION
BEAR PROPERTY
 Omineca Mining Division
General Location Plan

Date: May 2018	UTM Zone 9, NAD83	Figure:
Scale: 1:1,250,000	BCGS: 094D06/07/16 & 93M097	BE-2017-2
Drawn By: MD	NTS: 94D02, 93M15	

630000

640000

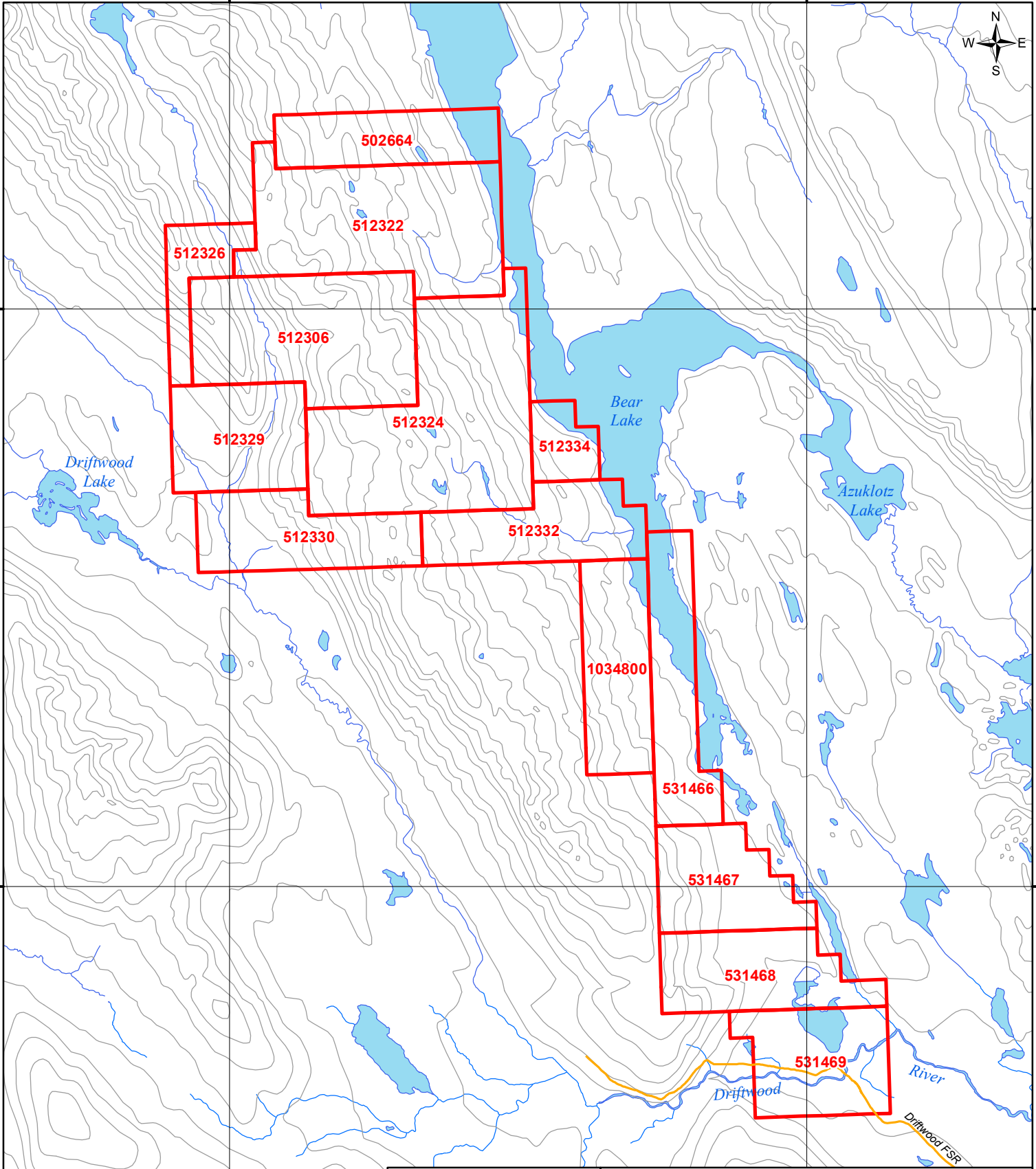


6220000

6220000

6210000

6210000



- Bear Mineral Claim
- Gravel Road
- BCR Rail Grade
- 100m contour line



IMPERIAL METALS CORPORATION
BEAR PROPERTY
 Omineca Mining Division
Bear Mineral Tenure Plan

Date: May 2018	UTM Zone 9, NAD83	Figure:
Scale: 1:90,000	BCGS: 094D06/07/16 & 93M097	BE-2017-3
Drawn By: MD	NTS: 94D02, 93M15	

Floatplane service is readily available in the region. Charters are available from Smithers, 150 km, Burns Lake, 220 km and Fort St. James, 250 km. Transferring materials from floatplane to helicopter would be difficult unless a dock was constructed. The Bear Lake Lodge is located at the northern end of Bear Lake in a small sheltered bay and 11 km north of the centre of the Bear Property. The Lodge has served as a base for working on the Bear Property in the past and has both a dock and a chopper pad. The 2017 Bear exploration program had the crew quartered at the Bear Lake Lodge and access to the property provided by Interior Helicopters Ltd.

The former BCR Dease Lake Extension ran from Prince George to Fort St. James and then on to Dease Lake. The railway, now owned by Canadian National, passes along the eastern shore of Bear Lake, where there is a siding that in the past was used as a staging area for the helicopter transport of supplies to the property. The siding is 5 km to the east of the Bear property. The Driftwood FSR crosses the railway about 20 km north of Takla Lake. The rail itself is still in place from Ft. St. James to north of Bear Lake but the railroad has not operated for several years since logging was curtailed in this area and the large logging camp at Lovell Cove on Takla Lake dismantled.

CLIMATE, TOPOGRAPHY AND VEGETATION:

The property lies on Tsaytut Spur in the Skeena Mountains, south of Mount Coccola and Peteyaz Peak. The eastern slope of the property drains into Bear Lake which is a tributary of the Skeena River and the west slopes drain into the Driftwood River, part of the Fraser River system.

The physiography of the property is rugged mountainous terrain, with steep sided mountains and a moderately open and easily walkable alpine. The highest point on the property is 1,858 m, on an unnamed section of Tsaytut Spur, just to the south of the main area of drilling. Topographic low is at 795 m, where the property lies close to the western shore of Bear Lake. Roughly 25% of the property is above tree line at 1,400 to 1,700 m elevation.

The areas above treeline are covered by a thin veneer of grassy alpine with short, stunted sheltered spruce thickets. Below 1,500 m the forest is mainly spruce and at the lowest elevations jackpine trees are present with the spruce in the wetter areas. The summers are damp and the area has long winters with deep snow starting in September and there may still be snow in June-July at the higher elevations.

HISTORY:

A summary of the property history is:

- 1948 – C.S. Lord completes regional mapping of the area and the work is published in GSC memoir 251.
- 1972 – Canadian Nickel Company Ltd. (Canico – becomes INCO later) Discovered copper – molybdenum mineralization while completing a regional porphyry Cu exploration program. The first claims were staked by Canadian Nickel and recorded on Sept 18 of that year.
- 1973 – Canico conducted Geological, Geochemical and Geophysical Surveys.
- 1974 – Follow-up drilling by Canico to test targets established in 1973. A total of 1,265 m were drilled in 10 diamond drill holes. A minor amount of geological and geochemical work was also done.
- 1975 – Metallurgical (floatation) test work completed by Canico on drill core with encouraging results.
- 1980 – Additional rock sampling.

- 1981 – Mapping, rock geochemistry and geophysical survey work including VLF-EM and IP.
- 1983 – Lornex optioned property from Canico, extended the soil grids and built a number of drill pads, but took the work no further.
- 1989 – The open ground was staked by Gerald Ryznar.
- 1996 – International Skyline Gold optioned the property and drilled 4 diamond drill holes for a total of 751 m of BQTK core. Skyline subsequently dropped the property.
- Mr. Gerald Ryznar optioned the property to Imperial Metals Corporation in early 2004. Imperial Metals stakes additional ground. Five diamond drill holes were completed for a total of 1,704 m.
- April, 2006 - Imperial Metals stakes additional ground to provide a corridor for an access road. On August 23 and 24, 2006, a helicopter-borne geophysical survey was carried out on the Bear property by Aeroquest Limited on behalf of Imperial Metals Corporation. Magnetic and radiometric data were obtained.
- April, 2007 - J. D. Mollard and Associates produces a report on an access road to the property.
- Aug.-Sept., 2007 - Imperial Metals drills two NQ2 diamond drill holes totalling 946.71 m and completes mapping, prospecting and rock sampling.
- Aug. 2015 – Imperial conducted a geochemical sampling program along the route of a proposed access road at the southern end of the property.

REGIONAL GEOLOGY:

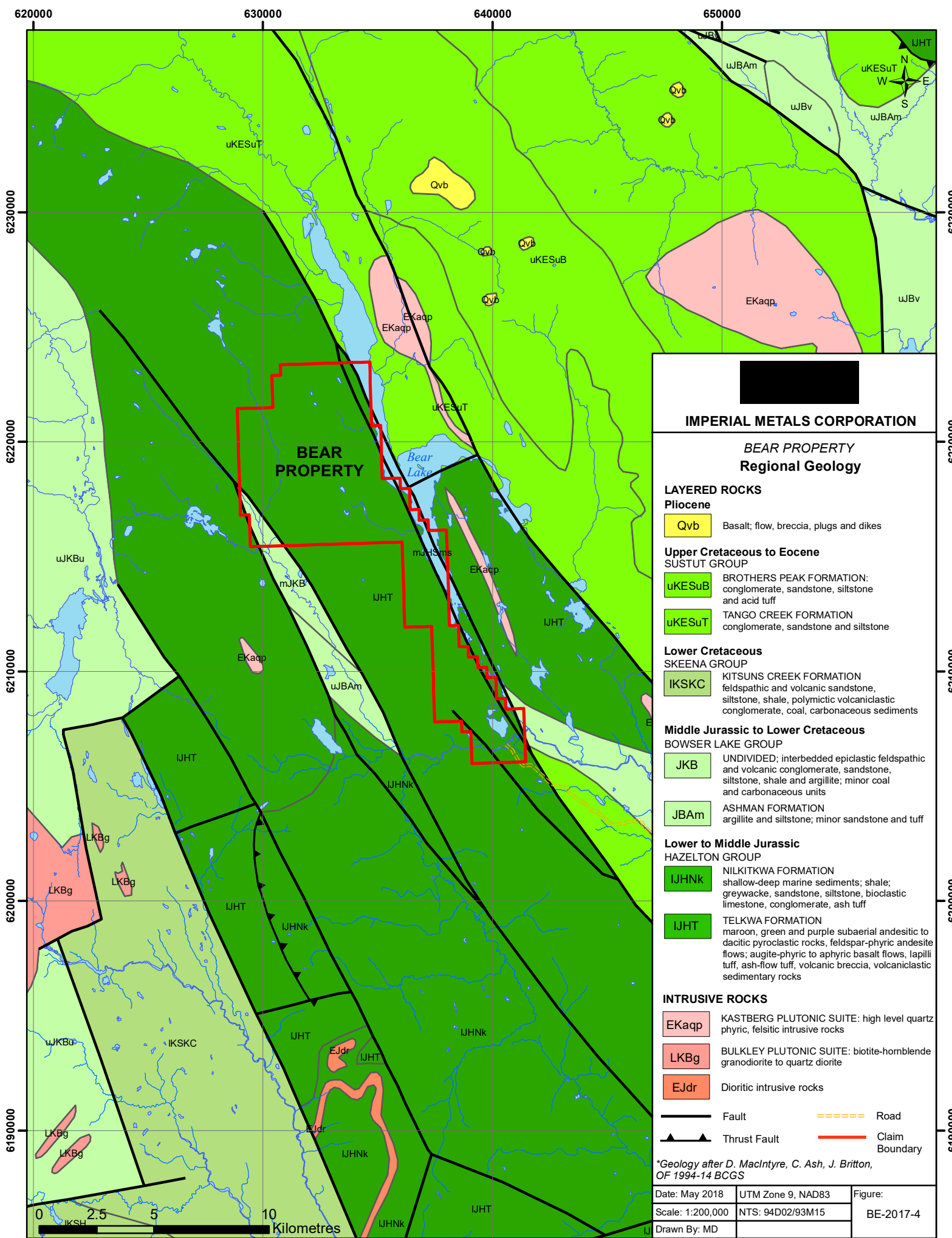
The regional geology of the Bear Lake area was mapped by C.S. Lord of the Geological Survey of Canada (GSC), published in Memoir 251. Detailed mapping of the mineralized core of the property was completed by Canico in 1973 with further work in the early 1980's, but a property wide geology map has not been produced. Geological mapping was not undertaken in conjunction with the 2004 and 2007 drilling programs, although field investigations and prospecting confirmed that the previous work appears to be valid. Nomenclature for intrusive rocks has been argued in the past, but was hopefully settled with the petrographic work described in the 2004 drilling report (ARIS 27851), largely in agreement with Woodcock (1982 and 1995).

The Bear Property is situated in the Intermontane Belt of the Canadian Cordillera. The Driftwood River to the west and Bear Lake Valley to the east are the local of major faults which bound a thick succession of intermediate to basic volcanics of mostly Hazelton Group with minor intercalated sedimentary horizons. Woodcock (1995) suggests that a component of Takla Group mafic volcanics may also be present. Plugs and stocks of the Kastberg Intrusive suite and Bulkley Intrusive suite are scattered along the belt.

Deposit model types represented within the fault block are shear veins, calc-alkalic porphyry, stratabound sedimentary replacement, stratabound shear zone. Raven (1996) provides a comprehensive description of the minfile showings in the district.

PROPERTY GEOLOGY:

The Bear property is mostly underlain by Jurassic Hazelton Group, dominantly felsic to intermediate volcanic rock comprised of crystal lithic tuffs, volcanoclastic greywacke, vesicular andesite flows and rhyolite flows (Woodcock, 1995). Mafic volcanic strata exposed on the eastern half of the property are possibly of the Upper Triassic Takla Group. As most of the mineralization is either hosted within or immediately adjacent to the intrusive bodies, little work has been done in mapping or differentiating the volcano-sedimentary stratigraphy. The volcanic strata have been intruded by a multiphase Eocene Kastberg stock. Several phases of the intrusive and immediately adjacent volcanic rocks host molybdenum – copper mineralization.



IMPERIAL METALS CORPORATION

**BEAR PROPERTY
Regional Geology**

- LAYERED ROCKS**
- Pliocene**
- Qvb** Basalt; flow, breccia, plugs and dikes
- Upper Cretaceous to Eocene**
- SUSTUT GROUP**
- uKESuB** BROTHERS PEAK FORMATION: conglomerate, sandstone, siltstone and acid tuff
 - uKESuT** TANGO CREEK FORMATION conglomerate, sandstone and siltstone
- Lower Cretaceous**
- SKEENA GROUP**
- IKSKC** KITSUNS CREEK FORMATION feldspathic and volcanic sandstone, siltstone, shale, polymictic volcanoclastic conglomerate, coal, carbonaceous sediments
- Middle Jurassic to Lower Cretaceous**
- BOWSER LAKE GROUP**
- JKB** UNDIVIDED; interbedded epiclastic feldspathic and volcanic conglomerate, sandstone, siltstone, shale and argillite; minor coal and carbonaceous units
 - JBAm** ASHMAN FORMATION argillite and siltstone; minor sandstone and tuff
- Lower to Middle Jurassic**
- HAZELTON GROUP**
- IJHNk** NILKITKWA FORMATION shallow-deep marine sediments; shale; greywacke, sandstone, siltstone, bioclastic limestone, conglomerate, ash tuff
 - IJHT** TELKWA FORMATION maroon, green and purple subaerial andesitic to dacitic pyroclastic rocks, feldspar-phyric andesite flows; augite-phyric to aphyric basalt flows, lapilli tuff, ash-flow tuff, volcanic breccia, volcanoclastic sedimentary rocks
- INTRUSIVE ROCKS**
- EKaqp** KASTBERG PLUTONIC SUITE: high level quartz phyric, felsitic intrusive rocks
 - LKBg** BULKLEY PLUTONIC SUITE: biotite-hornblende granodiorite to quartz diorite
 - EJdr** Dioritic intrusive rocks
- Geological Features:**
- Fault** (thick black line)
 - Thrust Fault** (black line with triangles)
 - Road** (dashed orange line)
 - Claim Boundary** (red line)

*Geology after D. MacIntyre, C. Ash, J. Britton, OF 1994-14 BCGS

Date: May 2018	UTM Zone 9, NAD83	Figure:
Scale: 1:200,000	NTS: 94D02/93M15	BE-2017-4
Drawn By: MD		



Lithology

The Kastberg intrusive exposed in the core of the property is a multiphase, calc-alkalic, porphyritic monzonite with intense hydrothermal alteration. These rocks are not deeply weathered and are easily identified in hand specimen with good surface exposure in the alpine. Mapping by Canico geologists in 1973 is believed to be reliable although the nomenclature of the rocks has been inconsistent, with notable differences between Peto, Hunter and Woodcock. Descriptions of the major rock types below are similar to those from Hunter and Woodcock and can be easily correlated.

Diorite

The Quartz Diorite unit is fine to medium-grained, equigranular to weakly porphyritic intrusive. It is comprised dominantly of interlocking, tabular albitic plagioclase, lesser quartz, K feldspar, minor mafic minerals, mostly hornblende and biotite, and up to 5% magnetite. These other minerals are anhedral and infill interstitial space between plagioclase crystals, or form a groundmass in the weakly porphyritic samples. The mafic minerals consist of hornblende and biotite in variable proportions. This rock type hosts the bulk of the mineralization and also hosts the best grades.

Quartz Monzonite

This unit is a medium to coarse-grained porphyritic intrusion. Plagioclase, quartz, biotite and orthoclase phenocrysts, up to 0.75 mm in length comprise up to half of the rock by volume, and occur in a much finer-grained, K-feldspar dominant groundmass. Plagioclase phenocrysts comprise 15-30%, while quartz phenocrysts comprise 5-20% of the rock. Orthoclase phenocrysts are less common, but are the most definable feature of the rock type as the megacrysts up to a few cm long are distinctly larger than the other phases. Orthoclase phenocrysts also contain inclusions of plagioclase crystals. Mafic content is around 5%, and consists mainly of blocky biotite crystals, intergrown with minor amounts of hornblende and magnetite.

Monzodiorite

The Monzodiorite is a fine-grained porphyritic intrusion, comprised of 15-20% prismatic, green hornblende crystals up to 3 mm in length, in a groundmass of much finer-grained (<0.5 mm) felted plagioclase crystals and K-feldspar. Several percent magnetite is disseminated in the groundmass. This unit is quite dark in appearance relative to the other, more acidic, intrusive phases and does not appear to be a good host to mineralization with chalcopyrite and molybdenite rarely observed in this rock type. Cross cutting relationships observed in core suggest a post mineral emplacement.

Alaskite

Alaskite is a coarsely equigranular to porphyritic phase with >65% perthitic pink potassic feldspar, quartz and plagioclase phenocrysts. The strongly diagnostic characteristics are the large crystals, perthitic orthoclase and lack of mafic minerals, aside from rare flecks of biotite.

Plagioclase Porphyry Dyke

The plagioclase porphyries are a light grey rock with euhedral plagioclase supported in a two phase matrix consisting of coarser quartz crystals and finer quartz and orthoclase crystals. The overall composition of the rock is about 50% quartz, but the feldspars dominate its appearance due to their larger euhedral crystals.

Ultramafic Dyke

Post mineral mafic dykes have augite phenocrysts to 5 mm in a nondescript fine grained groundmass. Contacts are often irregular with chilled margins and large xenoliths of host rock. They are often unmineralized, but can host locally remobilized chalcopyrite and molybdenite.

Quartzite (Rhyolite?)

This unit is observed both in the field and core and its origin is still in question. The rock is comprised mostly of rounded quartz crystals/grains in a muscovite-altered matrix. The rounded nature of the quartz suggests a sedimentary origin, however it is not conclusive and previous workers have described this unit as a rhyolite. Plagioclase crystals and clots with biotite are present and could be detrital. It is also possible that this was a rhyolite, and overprinting alteration has destroyed primary textures. Field relationships may be more useful in determining the origin of this rock in mapping this coming season.

Tuff

A crystal or dust tuff unit is present in small intervals but is often brecciated and mineralized. The overall appearance is coarsely speckled due to large plagioclase laths to 5 mm long, and also large amygdules. Calcite is common along hairline fractures throughout the unit. The unit appears to have been pervasively flooded by hydrothermal fluids resulting in intense alteration but is rarely observed to host strong mineralization.

Volcanic

The volcanic unit observed in core is dominantly mafic flow unit from the east side of the property, believed to be Takla Group. Due to hornfels alteration where the unit is in close proximity to intrusive, the rock is dominantly comprised of green-brown biotite, with lesser albitic plagioclase and minor quartz. The biotite is euhedral, and partially overprints the albite, which occurs as randomly oriented fine-grained, tabular crystals. The secondary biotite has also preferentially overprinted the primary groundmass of the unit.

Alteration

All rocks in or near the intrusive rocks have been significantly hydrothermally altered. Alteration is weakly pervasive but is generally observed as being more intense envelopes along the quartz-kspar-calcite veinlets and microfractures. The quartz veinlets are relatively planar sheeted fracture fillings from hairline to over 1 cm. The quartz is intergrown with lesser calcite, dolomite, potassium feldspar, chlorite and sulphides. Altered wall rock has been silicified and potassically altered and may also contain sulphides.

A less prevalent and irregularly shaped set of quartz veinlets postdating the earlier veinlets is observed, carrying copper-molybdenum mineralization as well as calcite and zeolite minerals. No potassic alteration is observed to be directly related to this event and the wallrock is sericite/clay-carbonate-chlorite altered.

Potassic alteration is usually concentrated along the quartz veinlets and associated microfractures and can be difficult to recognize in hand specimen as it is commonly (not always) expressed as microcline, so a stain kit is helpful. The surrounding rocks have a weak but widespread pervasive sericite-chlorite-carbonate alteration. Mafic minerals are often chlorite-carbonate altered and magnetite is observed to be hematitically altered or even replaced with sulphides.

The mafic volcanic rocks in the area of the intrusive have been intensely hornfelsed to the point of being comprised mainly of randomly oriented green-brown biotite flakes, which are partially chloritized near the quartz veinlets.

Mineralization

Molybdenum – copper mineralization on the property is mainly present as molybdenite and chalcopyrite hosted in sheeted quartz-Kspar-calcite veinlets or less frequently, in the adjacent wall rock. Occasional occurrence of Wulfenite is noted, rarely as well formed crystals but usually as orange resinous streaks in the quartz veinlets. Other rare economic minerals include bornite, chalcocite and possibly tetrahedrite.

Hand specimen observation provides that chalcopyrite and molybdenite are spatially related, however, petrographic analysis indicates that they are probably not exactly contemporaneous as the molybdenite is introduced in an early mineralizing with biotite (altered to chlorite) event and chalcopyrite and pyrite often occur together in the later stages of quartz veining. Pyrite is observed replacing chalcopyrite and as interlocking crystals, so they were likely introduced together over at least two pulses of quartz-carbonate veining.

2017 GEOCHEMICAL SAMPLING PROGRAM:

Logistics

The 2017 Bear field program was completed in the summer, August 18-21, 2017 during cloudy, cool days. A four man crew mobilized out of Fort St. James, BC by helicopter and all-terrain vehicles to a cabin at the Bear Lake Lodge on northwest end of Bear Lake. The cabin served as the field base for the program. The claims were accessed on a daily basis by helicopter due to the lack of access roads. Due to the high relief of the field area and dense vegetation, the helicopter was forced to land at higher elevations and field crews would then continue on foot to the targeted areas of interest. The first day of the program was spent mobilizing the crew to the field base and establishing landing zones to access the field area.

Soil Sampling

Prior to 2017, previous work on the Bear property was completed exclusively above the tree line where bedrock is readily exposed. Previous prospecting and drilling along the ridgeline confirmed weak Cu and Mo mineralization, but a substantial Cu-Mo porphyry deposit has not yet been identified. Other than an extensive drilling program, exploration efforts above the tree line have been exhausted. In order to locate new mineralized zones, exploration work must focus below the tree line where no documented field work has ever taken place.

In the summer of 2006, an airborne geophysical survey program was completed by Aeroquest Limited (ARIS Report #29093) in order to identify any geophysical anomalies on the Bear Property. The survey identified a significantly large magnetic anomaly encompassing the area of known mineralization on the Bear Property. The geophysical survey established a positive correlation between Cu-Mo mineralization and magnetic highs. Similar magnetic anomalies were delineated below the tree line, to the southwest of mineralization that was confirmed by drilling in 2007. It was the goal of this exploration program to establish new surface targets for Cu-Mo porphyry mineralization by focusing exploration efforts on the magnetic anomalies located below the tree line. Soil samples were collected along lines bisecting the center of the magnetic anomalies to identify any geochemical anomalies associated with mineralization at depth.

Methods

A total of 104 soil samples were collected along three 1 km-long lines that cross-cut three significant magnetic anomalies. Samples were collected every 25 m along North-South transects. Samples were submitted to Bureau Veritas Mineral Laboratories in Vancouver for trace element geochemical analysis. The analytical procedure utilized was AQ201, 36 multi-element assay by Aqua Regia digestion and ICP-MS analysis. The assay certificate and analytical procedure are appended in Section D.

Sample collectors made a deliberate effort to purge all sampling equipment of foreign contaminant prior to the collection of each sample. When a proper soil sample could not be obtained, a sample was not collected.

Data

Line A

Cu values along Line A range from 15 ppm to 357 ppm with a mean copper value of 48 ppm. Four samples from line A have Cu values greater than 100 ppm with two samples greater than 200 ppm. The highest Cu values occur isolated from each other in the southern portion of the sampling line.

Samples from Line A have low abundances of Mo relative to the Mo values in line B. Mo concentrations range from 0.8 ppm to 5.6 ppm with an average Mo value of 1.6 ppm. The highest concentrations are separated by approximately 750 m. One of the two elevated Mo samples has a Cu value greater than 100 ppm while the other has a low abundance of Cu.

Au values from Line A range from 0.5 ppb to 35.5 ppb with an average of 5.6 ppb. The highest Au values occur adjacent to each other and are located at the southern end of the sampling line. Both samples contain relatively low Cu and Mo abundances.

Line B

Soils from Line B returned the highest concentration of Cu, Mo and Au. Cu values along line B ranged from 18 ppm to 282 ppm and had a mean Cu value of 85 ppm. Nine samples along the transect returned Cu values greater than 100 ppm, three of which were greater than 200 ppm. All Cu values greater than 200 ppm are located at the southern portion of the sampling line, within 200 m of each other. Cu values greater than 100 ppm are well distributed throughout line B.

Mo values range from 2.3 ppm to 14.4 ppm and have an average value of 5.9 ppm. Five samples contain greater than 10 ppm Mo. The highest Mo values occur in the southern half of Line B, while the northern half only contains one sample with a Mo value greater than 7 ppm (8.1 ppm). High Mo values typically coincide with high Cu values.

The majority of samples along Line B contain low concentrations of Au averaging 7.8 ppb. Only three samples contain greater than 20 ppb Au, and only one sample documents greater than 50 ppb Au. The three elevated samples occur at the northern end of Line A, within approximately 150 m. Samples containing elevated Au do not always contain elevated concentrations of Cu and Mo.

Line C

Only 24 of the proposed 40 samples were collected from Line C due to terrane restrictions at the southern-end of the line. The vast majority of the line contains relatively low Cu, Mo and Au values compared to Lines A and B. Samples analyzed from Line C range from 15 ppm to 59 ppm Cu and have an average of 28 ppm Cu. Mo values range from 1 ppm to 5.4 ppm with a mean value of 1.9 ppm. The

highest Cu and Mo value from line C derive from the same sample. The lowest abundances of Au occur on Line C. Au values range from 0.8 ppb to 17.4 ppb with an average of 4.7 ppb. The highest Au value on Line C is not associated with elevated Cu and Mo.

The sample locations and analytical results for Cu, Mo, Zn and Au are shown on Figures BE-2017-5 to BE-2017-9. A detailed listing of the sample locations and descriptions are tabulated in Section E.

CONCLUSIONS

Trace element soil geochemistry was successful at identifying elevated values of Cu, Mo and Au above two of the three magnetic anomalies (Lines A and B). The results also demonstrate an increase in Cu, Mo and Au from east to west. Both Lines A and B demonstrate relatively high Cu, Mo and Au, while soils on Line C demonstrate no significantly elevated values. Cu and Mo values are inferred to share a positive correlation with one another while Au values indicate no correlation between Cu or Mo.

Although elevated values for Cu, Mo and Au were determined, the small sample size makes it difficult to identify what an anomalous value is for the property. Samples with more than 100 ppm Cu were reported as relatively high quantities of Cu, but further sampling can potentially prove 100 ppm Cu as being not an anomalous value. Therefore, the quantified values mentioned in this report should be interpreted with careful consideration. Moreover, the significant distance between the three sample lines makes it difficult to extrapolate the geochemical data between the transects. Further sampling is needed to gain a better understanding of the extent of the elevated values determined from this field program.

RECOMMENDATIONS

Additional soil sampling is required to gain a better understanding of this portion of the Bear Property. The lack of bedrock exposure below the tree line makes trace element soil geochemistry vital in identifying surface anomalies associated with mineralization at depth. Further soil sampling is recommended between and to the north of Lines A and B and to the west of Line B. Expanding the sampling program can potentially identify new geochemical anomalies and will define the dimensions of the elevated Cu, Mo and Au values documented in Lines A and B. No additional sampling is recommended around Line C. The low values identified in Line C infer no potential for establishing a geochemical anomaly. Further sampling will provide more insight into what represents an anomalous soil sample at the Bear Property.

Respectfully submitted,



Bill Fischer, M.Sc.

STATEMENT OF QUALIFICATIONS:

For: Bill Fischer of 235 Guildford Way, Port Moody, British Columbia

I am a Senior Exploration Geologist with the Imperial Metals Corporation with 4 years of experience. Office at 580 Hornby Street, Suite 200 Vancouver, British Columbia V6C 3B6 ext: 653.

I graduated from St. Norbert College, United States of America, with a Bachelor of Science Degree with Honors in Geology in 2012.

I graduated from the University of Nevada, Las Vegas, Nevada, United States of America, with a Master of Science Degree in Geology in 2014. While obtaining my Master Degree, I completed and published my thesis research entitled: Ore Classification and Breccia Formation in the 144 Zone Gold Deposit: A Chemical Replacement Model, Bare Mountain Range, Nevada.

I am currently pursuing my Doctor of Philosophy in Geology at Simon Fraser University, British Columbia.

I am currently in the process of publishing a collaborated scientific paper in a peer-reviewed scientific journal.

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


Bill Fischer, M.Sc.

LIST OF REFERENCES:

- Darney, M. and Robertson, S. (2007): Report on an Airborne Geophysical Survey, Bear 1- 5, BL1 – 4, Black 7, 512306, 512322, 512324 Claims, Bear Property, Bear Lake B. C.; BC Assessment Report 29093.
- Debicki, E.J. and Woodcock, J.R. (1982): Geological Consulting Report on the Bear, BE, BW, Claims. BC Assessment Report 10369.
- Gidluck, M.J. (1973): Report on Geological, Geochemical and Geophysical Surveys conducted on the Bear Claims – Groups A, B and C. BC Assessment Report 4648.
- Gidluck, M.J. (1974): Diamond Drill Logs on Bear Claims Group A, B and C. BC Assessment Report 5236.
- Hunter, E.N. (1974): Geological and Geochemical Surveys Conducted on the Bear Claims – Group C. BC Assessment Report 5269.
- International Skyline Gold Corp. (1996): Reports on the Diamond Drilling at the Bear Lake Property, News Release, October 8, 1996.
- J.D.Mollard and Associates Ltd., (2007): Bear Lake Mine Access Road Route Selection and Terrain Hazard Study. Report for Imperial Metals Corporation
- Jeletsky, O.L. (1976): Takla Project: Preliminary Report on Stratigraphy and Depositional History of Middle to Upper Jurassic Strata in McConnell Creek Map Area(west half) British Columbia; *in* Report of Activities, *Geological Survey of Canada*, Paper 76-1A, Report 13.
- Lord, C.S. (1948): McConnell Creek Map-Area, Cassiar District British Columbia; *Geological Survey of Canada*, Memoir 251.
- Miller-Tait, J. (2016): 2015 Geochemical Sampling Report, Bear Property, Bear Lake, BC, BC Assessment Report 36081.
- Peto, P. (1980): Geochemical Orientation Survey of the Bear Claims – Group A; BC Assessment Report 8335.
- Peto, P. and Krause, B. (1981): Geological, Geochemical and Geophysical Report, Bear Claims – Groups A, B and C, BE, BW Claims. BC Assessment Report 9534.
- Raven, Wesley (1996): Geological, Geochemical, Geophysical and Diamond Drilling Report, Chaco Bear Project. Assessment Report 25270.
- Richards, T.A. (1975): Takla Project: McConnell Creek Map Area (94D East Half) British Columbia; *in* Report of Activities, Part A, *Geological Survey of Canada*, Paper 76-1A, Report 10.
- Robertson, S. (2005): 2004 Drilling Report, Drift 1 – 8 Claims, Bear Property, Bear Lake B. C.; BC Assessment Report 27851

Roste, G (2008): 2007 Drilling Report, Drift and Drift 1-8 Claims, Bear Property, Bear Lake, BC; BC Assessment Report 29980

Serack, M.L. (1985): Report on the Geochemical Survey Bear 1 - 4 Claims. BC Assessment Report 14679.

Simonson Bjorn. (2007): An Archaeological Overview Assessment Relating to the Construction of and Exploration Trail between the Driftwood River and the Imperial Metals Corporation Mineral Property in the Vicinity of Bear Lake.

Tipman, R. (1975): Flotation Tests on Bear Lake, BC. Drill Cores. Internal Canico Report. 4pp.

Woodcock (1995): The Bear Lake Cu-Mo Property. Private Consultant's Property Report.

SECTION B: PROPERTY

Schedule of Mineral Tenures

The “good to” dates shown are based on the Statement of Exploration and Development Work registered on Mineral Titles Online on February 19, 2018 as Event #5686480 and assume that the work contained in this report will be accepted for assessment purposes.

BEAR PROPERTY: MINERAL TENURES					Date:	May 15 2018
OWNER:	Imperial Metals Corporation	100.00%	BC Client No.	144344	Tenures:	14
ROYALTY:	Gerald Ryznar	1.5%	NSR		Cells:	388
					Area (ha):	7,006.23
MINING DIVISION: Omineca		LAND DISTRICT: Cassiar		LAND TITLE DISTRICT: Prince Rupert		
LOCATION: 150 km north-northeast of Smithers, BC						
MAP NO.	NTS:	94D/02W	GEOGRAPHIC COORDINATES:		56° 06.5' N;	126° 51.5' W
	BCGS:	093M097, 094D006, 007, 016	UTM COORDINATES (NAD 83, ZONE 9N):		6 220 170 N	633 210 E

MAP REFERENCE:	
1:250 000	93M, 94D
1:50 000	93M/15W; 94D/02W
1:20 000	093M097, 094D006, 094D007, 094D016

TENURE RECORDS:										
Tenure No.	Tenure Type	Claim Name	Map No.	Record Date	Good To Date	Work Year	Cells	Area (ha)	Work Factor	Work**
502664	Mineral	Black 7	094D016	2005/Jan/13	2023/Apr/16	6	20	360.60	\$15.00	\$5,409.00
512306	Mineral		094D006, 016	2005/May/09	2020/sep/30	3	45	811.97	\$10.00	\$8,119.70
512322	Mineral		094D016	2005/May/10	2020/sep/30	3	50	901.80	\$10.00	\$9,018.00
512324	Mineral		094D006, 016	2005/May/10	2020/sep/30	3	61	1101.06	\$10.00	\$11,010.60
512326	Mineral	Bear 1	094D006, 016	2005/May/10	2023/Apr/16	6	11	198.43	\$15.00	\$2,976.45
512329	Mineral	Bear 2	094D006	2005/May/10	2023/Apr/16	6	24	433.22	\$15.00	\$6,498.30
512330	Mineral	Bear 3	094D006	2005/May/10	2023/Apr/16	6	25	451.45	\$15.00	\$6,771.75
512332	Mineral	Bear 4	094D006, 007	2005/May/10	2023/Apr/16	6	24	433.40	\$15.00	\$6,501.00
512334	Mineral	Bear 5	094D006	2005/May/10	2023/Apr/16	6	8	144.42	\$15.00	\$2,166.30
531466	Mineral	BL 1	094D007	2006/Apr/07	2023/Apr/16	6	24	433.68	\$15.00	\$6,505.20
531467	Mineral	BL 2	094D007	2006/Apr/07	2023/Apr/16	6	22	397.86	\$15.00	\$5,967.90
531468	Mineral	BL 3	093M097, 094D007	2006/Apr/07	2023/Apr/16	6	25	452.27	\$15.00	\$6,784.05
531469	Mineral	BL 4	093M097	2006/Apr/07	2023/Apr/16	6	25	452.43	\$15.00	\$6,786.45
1034800	Mineral	B 101	094D006, 007	2015/Mar/16	2020/sep/30	6	24	433.64	\$15.00	\$6,504.60
TOTAL	14						388	7006.23		\$91,019.30

** 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

**IMPERIAL METALS CORPORATION
BEAR PROJECT**

Statement of Expenditures: 2017 Geochemical / Geological Sampling Program

May 15 2018

Item / Contractor	Work	Period	Quantity	Unit	Rate	Amount
Personnel:						
Jim Miller-Tait, P.Geo.	Exploration Manager	August 18-22, 2017	5	days	\$550.00	\$2,750.00
Ben Eggers, P.Geo.	Geologist	August 17-21, 2017	4.5	days	\$500.00	\$2,250.00
Toby Orrick	Geologist	August 18-22, 2017	4	days	\$250.00	\$1,000.00
Bill Fischer	Geologist	August 18-22, 2017	4	days	\$400.00	\$1,600.00
Rosemary Charlie	Field Assistant	August 19, 2017	1	days	\$200.00	\$200.00
Subtotal						\$7,800.00
Accommodation & Meals:						
Bear Lake Lodge	Crew Accommodation and Meals	August 18-21, 2017	15	person days	\$40.00	\$600.00
Quality Hotel, Vancouver	Ben Egger in transit from Tofino	August 17, 2017	1	person night	\$241.99	\$241.99
Prince George Lodging	J. Miller-Tait	August 17 & 21, 2017	2	person night		\$435.85
Fort St James Motel	B. Fischer and T. Orrick	August 17, 2017	2	person night	\$150.00	\$300.00
Meals	Food supplies for lodge	August 17-21, 2017				\$457.57
Subtotal						\$2,035.41
Transportation (Air):						
Interior Helicopters Ltd.	Bell 206 helicopter transport from Fort St James to property	August 18-21, 2017	14.0	hours	\$1,372.22	\$19,211.04
Corporate Traveller Lions Gate	Commercial air transport for B.Eggers, T. Orrick and B. Fischer	August 14, 18 & 28, 2017	3.0	persons		\$659.66
Subtotal						\$19,870.70
Transportation (Ground/Water)						
NorthWest Truck Rental	Fort St James - Bear Lake - Smithers	August 18-21, 2017	732	km		\$524.60
F-250 - Fuel	Fort St James - Bear Lake - Smithers	August 18-21, 2017				\$228.08
Exploration Manager - Pickup	Prince George - Bear Lake - Vancouver	August 18-22, 2017	1090	km	\$0.45	\$490.50
Exploration Manager - Fuel	Prince George - Bear Lake - Vancouver	August 18-22, 2017				\$368.83
Subtotal						\$1,612.01
Assaying:						
Bureau Veritas Mineral Laboratories	B Soil Samples: AQ201 analytical code		103	samples	\$23.06	\$2,374.80
Subtotal			103			\$2,374.80
Field Supplies:						
Deakin Equipment Ltd.	Sampling & engineering supplies		1	units	\$50.00	\$50.00
Blackbird Geoscience Ltd	2-Way Radio rental x 2		1	days	\$10.00	\$10.00
Globalstar	Satellite Phone rental		1	mo	\$60.00	\$60.00
Subtotal						\$120.00
Drafting:						
Melissa Darney	GIS work: drafting of report maps		1	days	\$300.00	\$300.00

Subtotal						\$300.00
Report Preparation:						
Bill Fischer	Data compilation, report preparation		3	days	\$400.00	\$1,200.00
Erik Andersen	Data preparation, report editing		6	hours	\$54.30	\$325.80
Subtotal						\$1,525.80
Total	Work Performed on Tenures: 512324, 512329 & 512330					\$35,638.72
					Maximum PAC Factor	1.4285
					Maximum Assessment	\$50,909.91

SECTION D: ANALYTICAL RESULTS

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

Certificate Number	Date of Certificate	No. of Samples	Sample Type	Analytical Procedure
VAN17001895	Sep 12 2017	103	Soils	AQ201
Total		103		

2. Statement of Analytical Procedures: 1 data sheets
 - 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 British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: Imperial Metals Corporation
200 - 580 Hornby St.
Vancouver British Columbia V6C 3B6 Canada

Submitted By: Erik Andersen
Receiving Lab: Canada-Vancouver
Received: August 29, 2017
Report Date: September 12, 2017
Page: 1 of 5

CERTIFICATE OF ANALYSIS

VAN17001895.1

CLIENT JOB INFORMATION

Project: Bear
Shipment ID: BE2017-01
P.O. Number
Number of Samples: 104

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
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.

Invoice To: Imperial Metals Corporation
200 - 580 Hornby St.
Vancouver British Columbia V6C 3B6
Canada

CC: Jim Miller-Tait

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
DY060	103	Dry at 60C			VAN
SS80	103	Dry at 60C sieve 100g to -80 mesh			VAN
AQ201	102	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
DRPLP	103	Warehouse handling / disposition of pulps			VAN

ADDITIONAL COMMENTS



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 Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Imperial Metals Corporation
200 - 580 Hornby St.
Vancouver British Columbia V6C 3B6 Canada

Project: Bear
Report Date: September 12, 2017

Page: 2 of 5

Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN17001895.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	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	0.01	0.001	ppm	
A1	Soil	2.2	21.6	12.1	46	0.3	4.6	5.5	284	3.90	6.4	10.3	0.3	13	0.2	0.5	0.4	106	0.13	0.061	6
A2	Soil	1.8	30.3	13.2	79	0.2	8.3	9.5	593	4.97	13.2	35.5	0.2	13	0.4	0.6	0.7	102	0.17	0.120	6
A3	Soil	1.3	37.4	9.3	93	0.2	9.2	10.8	647	5.13	12.7	23.4	0.2	14	0.3	0.4	0.3	115	0.22	0.144	4
A4	Soil	2.2	46.7	19.1	117	0.2	5.4	9.2	509	4.67	11.4	3.3	1.4	7	<0.1	0.7	0.4	88	0.06	0.054	12
A5	Soil	1.7	21.4	14.0	51	0.2	4.7	6.7	343	4.87	10.8	2.0	0.2	8	0.1	0.5	0.3	113	0.08	0.072	7
A6	Soil	2.1	40.6	16.5	121	<0.1	6.9	13.2	818	3.78	6.4	1.5	0.6	16	0.3	0.4	0.3	98	0.31	0.089	8
A7	Soil	0.9	30.1	9.0	87	0.2	5.2	14.3	1080	4.89	6.3	7.5	0.5	15	0.2	0.3	0.2	157	0.34	0.090	10
A8	Soil	5.1	119.3	19.3	118	<0.1	19.1	17.7	762	5.97	51.5	3.2	2.5	16	0.2	0.9	0.3	127	0.16	0.066	6
A9	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
A10	Soil	1.1	23.6	10.7	63	0.2	5.9	7.9	580	4.25	7.6	2.2	0.2	19	0.2	0.4	0.3	131	0.16	0.106	6
A11	Soil	1.4	24.9	9.7	76	0.2	7.0	8.2	623	4.12	7.4	5.3	0.1	14	0.2	0.4	0.3	110	0.21	0.089	8
A12	Soil	1.0	25.1	7.2	103	0.1	7.8	11.7	604	5.23	8.8	11.4	0.7	12	0.2	0.3	0.2	123	0.15	0.144	8
A13	Soil	1.0	15.2	9.9	47	0.2	3.4	6.8	674	3.24	5.7	5.1	0.2	12	<0.1	0.3	0.2	118	0.18	0.099	7
A14	Soil	1.6	43.9	8.7	195	0.3	6.7	8.3	1360	3.20	5.3	3.2	0.6	23	0.2	0.2	0.3	80	1.15	0.212	13
A15	Soil	2.0	82.6	13.9	152	0.7	8.1	11.8	4055	3.15	8.4	2.1	0.5	32	0.9	0.2	0.2	65	1.77	0.264	38
A16	Soil	1.0	38.7	8.1	63	0.1	5.4	7.9	358	4.45	8.5	1.1	0.1	11	0.2	0.3	0.2	112	0.17	0.080	6
A17	Soil	1.1	356.9	7.7	70	1.9	7.5	11.3	1547	3.51	11.4	9.3	0.5	35	0.3	0.4	0.2	93	1.82	0.268	98
A18	Soil	0.7	33.4	4.1	100	0.1	4.7	13.3	638	5.04	3.7	13.5	0.6	11	<0.1	0.1	<0.1	120	0.43	0.113	6
A19	Soil	0.7	110.7	2.4	71	0.1	6.0	18.5	882	5.96	3.6	<0.5	0.4	13	<0.1	<0.1	0.1	124	0.48	0.085	3
A20	Soil	1.1	33.9	7.8	88	<0.1	5.7	11.5	803	5.23	5.4	1.1	0.4	20	0.2	0.3	0.2	157	0.38	0.174	5
A21	Soil	1.1	30.8	6.9	84	0.2	12.6	11.9	511	5.54	4.7	0.7	0.3	8	0.2	0.3	0.2	143	0.10	0.107	6
A22	Soil	1.4	33.6	8.7	77	0.2	7.1	9.4	539	4.66	5.3	0.8	<0.1	11	0.2	0.3	0.2	114	0.12	0.152	5
A23	Soil	1.5	209.0	14.1	114	1.1	17.1	13.6	1101	4.54	9.9	2.4	1.0	17	0.3	0.6	0.4	86	0.51	0.140	32
A24	Soil	0.8	15.2	10.6	54	0.1	5.2	7.5	579	2.81	3.2	3.4	<0.1	15	0.2	0.3	0.3	106	0.17	0.054	6
A25	Soil	1.5	37.2	13.3	83	<0.1	9.0	10.3	731	4.91	6.1	3.9	0.7	17	0.2	0.6	0.3	140	0.20	0.096	7
A26	Soil	1.3	24.9	9.3	97	0.2	6.2	10.7	864	5.53	4.5	6.6	0.4	16	0.1	0.4	0.2	200	0.15	0.113	6
A27	Soil	1.4	24.2	10.4	75	0.2	7.3	9.8	591	5.03	5.6	2.8	0.7	14	0.1	0.6	0.3	164	0.14	0.068	6
A28	Soil	1.0	20.4	8.4	107	<0.1	6.5	12.8	756	6.44	5.8	0.9	0.6	13	0.1	0.5	0.2	200	0.13	0.108	6
A29	Soil	1.3	23.4	13.6	108	0.1	5.2	16.0	3912	4.17	4.8	3.0	<0.1	15	0.3	0.3	0.3	164	0.18	0.099	7
A30	Soil	0.8	15.2	9.3	88	<0.1	4.9	10.0	920	4.21	4.3	2.5	0.4	15	<0.1	0.4	0.2	157	0.15	0.073	7



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Imperial Metals Corporation
200 - 580 Hornby St.
Vancouver British Columbia V6C 3B6 Canada

Project: Bear
Report Date: September 12, 2017

Page: 2 of 5

Part: 2 of 2

CERTIFICATE OF ANALYSIS

VAN17001895.1

Method	Analyte	AQ201	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	
Unit		ppm	%	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	0.05	1	0.5	0.2		
A1	Soil	12	0.27	77	0.027	1	1.98	0.007	0.04	0.3	0.03	2.7	<0.1	0.12	9	<0.5	<0.2	
A2	Soil	20	0.57	69	0.029	2	2.05	0.007	0.05	0.3	0.05	2.9	<0.1	0.11	9	0.5	<0.2	
A3	Soil	21	0.77	56	0.023	2	2.62	0.006	0.09	0.2	0.06	3.2	<0.1	0.16	8	<0.5	<0.2	
A4	Soil	12	0.36	127	0.005	<1	2.70	0.006	0.08	0.2	0.02	5.6	0.2	0.11	8	<0.5	<0.2	
A5	Soil	14	0.35	61	0.018	<1	1.84	0.005	0.04	0.2	0.03	2.4	0.1	0.13	8	<0.5	<0.2	
A6	Soil	14	0.55	127	0.014	1	2.36	0.006	0.05	0.3	0.03	3.7	<0.1	0.15	8	<0.5	<0.2	
A7	Soil	15	0.58	123	0.026	1	3.09	0.010	0.08	0.2	0.05	6.2	<0.1	0.12	11	<0.5	<0.2	
A8	Soil	34	0.96	94	0.052	3	4.18	0.008	0.07	0.3	0.07	8.8	0.1	0.21	9	1.3	<0.2	
A9	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
A10	Soil	18	0.44	55	0.048	<1	2.02	0.007	0.04	0.2	0.04	3.6	<0.1	0.13	11	0.5	<0.2	
A11	Soil	19	0.51	76	0.020	1	2.48	0.007	0.05	0.2	0.04	2.1	<0.1	0.12	10	<0.5	<0.2	
A12	Soil	17	0.76	71	0.022	1	3.37	0.006	0.06	0.2	0.04	5.0	<0.1	0.16	10	0.6	<0.2	
A13	Soil	9	0.33	85	0.057	<1	1.54	0.006	0.07	0.1	0.04	3.1	<0.1	0.13	9	0.5	<0.2	
A14	Soil	13	0.46	137	0.009	<1	3.08	0.008	0.07	0.2	0.05	4.8	0.1	0.14	9	1.0	<0.2	
A15	Soil	20	0.40	148	0.007	2	2.54	0.007	0.07	0.2	0.09	7.3	0.1	0.24	5	2.1	<0.2	
A16	Soil	13	0.47	67	0.018	2	2.02	0.006	0.05	0.2	0.04	2.5	0.1	0.14	8	<0.5	<0.2	
A17	Soil	36	0.62	151	0.016	4	2.94	0.007	0.08	0.1	0.33	21.8	<0.1	0.26	6	2.8	<0.2	
A18	Soil	8	0.86	122	0.007	<1	3.81	0.006	0.08	0.1	0.04	6.3	0.1	0.14	10	<0.5	<0.2	
A19	Soil	7	1.22	97	0.007	1	3.89	0.005	0.10	<0.1	0.02	6.7	0.1	0.10	8	<0.5	<0.2	
A20	Soil	15	0.65	141	0.066	1	1.93	0.007	0.08	0.2	0.02	5.5	<0.1	0.10	10	<0.5	<0.2	
A21	Soil	26	0.83	66	0.033	<1	3.03	0.006	0.06	0.2	0.04	6.5	0.1	0.11	11	<0.5	<0.2	
A22	Soil	15	0.57	52	0.021	2	2.64	0.007	0.06	0.2	0.07	2.1	<0.1	0.15	9	0.7	<0.2	
A23	Soil	30	0.85	189	0.017	2	3.52	0.014	0.12	0.2	0.08	7.5	0.1	0.14	8	1.0	<0.2	
A24	Soil	14	0.50	74	0.043	<1	1.80	0.009	0.05	0.2	0.02	2.7	0.1	0.12	9	<0.5	<0.2	
A25	Soil	22	0.57	110	0.041	2	2.53	0.007	0.06	0.3	0.02	5.8	0.1	0.10	10	0.6	<0.2	
A26	Soil	15	0.54	86	0.099	1	1.84	0.007	0.06	0.2	0.04	6.2	<0.1	0.11	12	<0.5	<0.2	
A27	Soil	18	0.56	39	0.118	1	2.12	0.006	0.04	0.3	0.05	5.5	<0.1	0.13	11	<0.5	<0.2	
A28	Soil	13	0.86	97	0.108	2	2.53	0.007	0.04	0.3	0.03	7.9	0.1	0.08	12	<0.5	<0.2	
A29	Soil	12	0.49	138	0.024	1	2.39	0.006	0.05	0.2	0.04	2.3	0.1	0.09	11	<0.5	<0.2	
A30	Soil	11	0.64	65	0.090	1	1.85	0.007	0.05	0.2	0.04	5.3	<0.1	0.13	11	<0.5	<0.2	

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.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Imperial Metals Corporation
200 - 580 Hornby St.
Vancouver British Columbia V6C 3B6 Canada

Project: Bear
Report Date: September 12, 2017

Page: 3 of 5

Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN17001895.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	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	2	0.01	0.001	1	
A31	Soil	1.1	16.5	10.7	67	0.3	5.5	8.1	529	3.21	5.3	1.0	0.2	14	<0.1	0.3	109	0.14	0.073	6	
A32	Soil	1.6	26.9	13.2	86	0.1	5.7	9.0	983	3.19	5.8	2.1	0.1	26	0.2	0.3	104	0.60	0.084	8	
A33	Soil	1.7	22.6	14.2	54	0.1	4.2	8.0	421	3.81	5.4	11.8	0.3	15	0.2	0.4	142	0.13	0.052	7	
A34	Soil	1.7	20.5	13.9	48	0.3	5.2	6.8	291	2.13	4.5	9.9	0.3	18	0.2	0.5	70	0.35	0.045	8	
A35	Soil	1.8	43.5	15.7	119	0.2	7.1	13.1	1003	4.92	3.9	0.8	0.5	34	0.2	0.5	150	0.95	0.067	9	
A36	Soil	1.2	17.5	8.6	43	<0.1	3.5	6.7	328	4.72	3.4	<0.5	0.9	7	0.1	0.3	134	0.06	0.097	5	
A37	Soil	2.0	38.2	14.4	74	<0.1	8.8	12.0	466	6.05	8.1	1.2	0.9	12	0.1	0.7	141	0.12	0.082	6	
A38	Soil	1.1	31.0	9.1	79	0.2	5.6	11.5	1513	4.99	5.7	5.2	0.4	5	0.1	0.4	116	0.05	0.118	6	
A39	Soil	1.4	29.2	11.6	68	<0.1	5.2	8.9	592	4.65	5.7	1.9	0.1	6	<0.1	0.5	115	0.06	0.079	7	
A40	Soil	5.6	49.9	15.7	88	0.4	6.9	11.0	630	3.23	12.4	7.0	0.5	26	0.4	0.7	50	0.69	0.134	11	
B1	Soil	14.4	22.2	15.3	55	0.2	6.7	6.0	424	3.89	11.9	3.2	0.5	25	0.4	0.6	107	0.36	0.044	6	
B2	Soil	2.3	19.6	10.7	126	0.2	7.4	7.0	517	3.76	9.7	3.1	0.9	13	0.6	0.5	81	0.17	0.085	6	
B3	Soil	9.4	275.6	18.2	194	0.7	11.5	12.7	4634	3.21	10.5	6.0	0.4	20	5.6	0.5	70	0.77	0.120	41	
B4	Soil	3.3	77.8	17.5	119	0.2	10.8	14.3	1492	3.69	11.8	13.0	0.3	19	0.7	0.6	81	0.52	0.084	13	
B5	Soil	4.4	21.9	11.9	49	0.2	4.5	5.6	453	2.64	8.4	0.6	0.2	13	0.3	0.5	76	0.26	0.050	7	
B6	Soil	9.8	189.9	18.5	192	1.1	15.3	17.9	1604	4.64	15.9	11.1	0.6	34	1.8	0.7	82	1.04	0.156	32	
B7	Soil	5.0	68.9	10.2	49	0.3	4.7	4.9	557	1.92	5.7	1.1	<0.1	40	1.1	0.3	54	2.13	0.084	6	
B8	Soil	7.9	247.0	22.5	134	0.9	13.4	14.9	1792	3.33	9.8	11.6	0.7	26	0.8	0.6	63	1.37	0.120	38	
B9	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
B10	Soil	11.3	282.4	16.7	143	0.4	16.0	16.1	2255	3.90	9.7	2.8	0.6	27	0.7	0.7	75	0.74	0.115	17	
B11	Soil	7.2	70.7	13.1	134	0.1	10.4	9.9	799	4.58	8.7	1.3	0.1	14	0.4	0.5	99	0.17	0.101	5	
B12	Soil	10.5	23.4	12.0	85	0.2	6.0	6.8	595	3.79	5.2	4.0	0.4	22	0.4	0.5	114	0.38	0.053	6	
B13	Soil	9.1	32.7	11.1	85	0.1	8.6	8.3	436	4.49	8.0	3.0	0.4	23	0.4	0.5	101	0.43	0.063	6	
B14	Soil	4.8	37.5	13.6	87	<0.1	9.5	9.1	519	4.96	8.4	2.1	0.5	17	0.2	0.7	125	0.24	0.074	5	
B15	Soil	2.7	17.9	13.2	62	0.1	4.5	9.6	900	3.25	2.3	2.2	0.4	21	0.4	0.3	107	0.26	0.047	6	
B16	Soil	2.4	44.8	20.0	135	0.1	12.4	12.8	957	5.02	8.6	1.8	1.0	22	0.4	0.8	127	0.34	0.118	6	
B17	Soil	5.1	18.9	16.9	45	<0.1	5.2	4.7	218	3.25	5.0	0.6	0.2	19	0.2	0.5	104	0.21	0.039	6	
B18	Soil	12.8	68.6	19.1	91	0.4	9.0	13.2	1260	3.59	8.1	3.6	0.2	26	0.7	0.5	89	1.06	0.077	10	
B19	Soil	8.8	72.5	18.9	117	0.4	13.6	15.8	981	4.26	10.1	3.1	0.5	20	0.6	0.7	84	0.54	0.098	14	
B20	Soil	11.3	77.6	21.6	128	0.7	11.5	21.9	1724	4.64	12.6	5.8	0.7	22	0.7	0.7	88	0.53	0.099	18	

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.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Imperial Metals Corporation
200 - 580 Hornby St.
Vancouver British Columbia V6C 3B6 Canada

Project: Bear
Report Date: September 12, 2017

Page: 3 of 5

Part: 2 of 2

CERTIFICATE OF ANALYSIS

VAN17001895.1

Method	Analyte	AQ201	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	Ti	S	Ga	Se	Te	
Unit		ppm	%	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	0.05	1	0.5	0.2		
A31	Soil	14	0.64	51	0.048	1	2.08	0.006	0.04	0.2	0.06	2.8	<0.1	0.11	9	<0.5	<0.2	
A32	Soil	14	0.53	143	0.021	<1	1.86	0.006	0.05	0.3	0.04	2.3	<0.1	0.13	8	<0.5	<0.2	
A33	Soil	14	0.42	59	0.063	<1	1.68	0.006	0.03	0.3	0.04	3.1	<0.1	0.14	10	<0.5	<0.2	
A34	Soil	17	0.39	55	0.033	1	1.65	0.006	0.03	0.4	0.05	2.1	<0.1	0.12	8	<0.5	<0.2	
A35	Soil	18	0.61	383	0.023	1	2.61	0.008	0.05	0.2	0.06	6.1	<0.1	0.17	10	<0.5	<0.2	
A36	Soil	13	0.33	54	0.012	<1	2.52	0.006	0.05	0.2	0.03	5.6	0.1	0.13	10	<0.5	<0.2	
A37	Soil	24	0.55	56	0.016	<1	2.70	0.007	0.04	0.3	0.04	3.8	<0.1	0.08	9	<0.5	<0.2	
A38	Soil	16	0.36	89	0.006	<1	2.06	0.006	0.05	0.2	0.03	3.7	<0.1	<0.05	8	<0.5	<0.2	
A39	Soil	12	0.34	66	0.007	<1	1.61	0.007	0.04	0.2	0.04	1.9	<0.1	<0.05	8	<0.5	<0.2	
A40	Soil	16	0.46	167	0.003	1	1.27	0.007	0.07	0.1	0.07	4.6	<0.1	<0.05	3	0.6	0.3	
B1	Soil	17	0.25	111	0.063	<1	1.11	0.006	0.03	0.2	0.03	2.7	<0.1	<0.05	9	<0.5	<0.2	
B2	Soil	17	0.38	74	0.032	<1	1.37	0.006	0.04	0.4	0.04	3.1	<0.1	<0.05	8	<0.5	<0.2	
B3	Soil	22	0.44	135	0.016	<1	2.42	0.008	0.03	0.2	0.06	5.1	0.2	<0.05	5	0.7	<0.2	
B4	Soil	22	0.58	92	0.029	<1	1.55	0.006	0.03	0.2	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2	
B5	Soil	15	0.20	93	0.031	<1	0.88	0.005	0.05	0.2	0.02	1.9	<0.1	<0.05	6	<0.5	<0.2	
B6	Soil	35	0.76	151	0.019	2	2.83	0.009	0.05	0.3	0.10	8.5	0.1	<0.05	7	1.3	<0.2	
B7	Soil	11	0.14	131	0.022	1	0.64	0.005	0.03	0.2	0.06	1.2	<0.1	0.08	4	<0.5	<0.2	
B8	Soil	28	0.63	162	0.014	<1	1.77	0.008	0.05	0.3	0.09	8.8	0.2	<0.05	5	1.4	<0.2	
B9	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	
B10	Soil	27	0.72	151	0.017	<1	2.07	0.008	0.05	0.3	0.05	5.3	0.1	<0.05	6	<0.5	<0.2	
B11	Soil	21	0.53	142	0.017	<1	1.82	0.006	0.05	0.2	0.03	1.8	<0.1	<0.05	8	<0.5	0.5	
B12	Soil	16	0.29	190	0.034	<1	1.28	0.006	0.05	0.3	0.02	2.8	<0.1	<0.05	9	<0.5	0.9	
B13	Soil	19	0.45	91	0.031	<1	1.60	0.006	0.04	0.3	0.03	3.1	<0.1	<0.05	7	<0.5	0.5	
B14	Soil	18	0.52	94	0.040	<1	1.69	0.006	0.04	0.4	0.05	3.4	<0.1	<0.05	9	<0.5	<0.2	
B15	Soil	11	0.22	87	0.044	<1	1.23	0.006	0.03	0.2	0.02	2.6	<0.1	<0.05	9	<0.5	<0.2	
B16	Soil	23	0.69	86	0.051	<1	1.95	0.007	0.04	0.4	0.04	5.2	<0.1	<0.05	9	<0.5	<0.2	
B17	Soil	15	0.16	50	0.028	<1	1.14	0.006	0.02	0.3	0.02	2.0	<0.1	<0.05	8	<0.5	<0.2	
B18	Soil	16	0.24	124	0.020	<1	1.15	0.007	0.05	0.2	0.04	2.3	<0.1	<0.05	6	<0.5	<0.2	
B19	Soil	25	0.66	102	0.019	1	2.17	0.008	0.04	0.3	0.04	3.9	<0.1	<0.05	7	0.5	<0.2	
B20	Soil	24	0.52	71	0.034	<1	2.92	0.008	0.03	0.2	0.07	6.9	<0.1	<0.05	7	0.7	<0.2	



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Imperial Metals Corporation
200 - 580 Hornby St.
Vancouver British Columbia V6C 3B6 Canada

Project: Bear
Report Date: September 12, 2017

Page: 4 of 5

Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN17001895.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	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	0.01	0.001	1	
B21	Soil	8.8	60.8	15.4	68	0.4	9.1	9.5	402	4.97	11.5	1.7	0.4	43	1.9	0.8	0.2	108	1.64	0.055	12
B22	Soil	3.9	140.6	20.3	114	0.8	16.2	18.1	1757	4.32	10.3	5.3	0.6	26	0.8	1.0	0.3	82	0.66	0.106	25
B23	Soil	3.1	62.4	18.4	99	0.4	9.0	10.0	671	5.71	11.9	3.8	1.3	18	0.3	2.5	0.3	112	0.19	0.077	8
B24	Soil	3.3	147.0	24.1	171	0.6	15.1	22.6	2059	4.91	10.7	2.0	1.4	24	0.6	0.9	0.4	109	0.64	0.059	14
B25	Soil	4.8	37.1	17.3	93	0.2	10.2	11.6	545	6.04	12.2	2.0	1.0	18	0.2	0.9	0.3	129	0.20	0.052	7
B26	Soil	2.7	23.9	12.7	85	0.7	6.8	9.3	834	4.60	8.0	4.3	0.4	19	0.2	0.8	0.4	110	0.17	0.101	6
B27	Soil	4.2	32.4	16.6	117	0.2	9.2	13.7	2119	5.26	11.2	1.9	0.5	19	0.3	1.0	0.3	113	0.26	0.057	6
B28	Soil	2.6	84.0	16.5	155	0.3	13.8	13.5	1280	3.44	7.9	5.3	0.8	22	0.9	0.7	0.2	74	0.56	0.087	13
B29	Soil	3.3	35.3	18.2	53	0.4	6.7	8.8	627	4.14	10.1	2.3	0.3	21	0.4	0.9	0.4	124	0.29	0.052	8
B30	Soil	3.2	60.7	19.1	96	0.3	12.7	13.8	750	4.62	11.7	5.3	0.4	20	0.5	0.8	0.3	92	0.46	0.080	9
B31	Soil	3.5	56.5	19.4	83	0.2	12.1	12.4	837	6.23	13.2	10.2	1.0	12	0.1	0.8	0.3	107	0.16	0.297	6
B32	Soil	2.6	83.2	23.8	145	0.3	15.5	17.1	1105	4.07	11.6	11.1	0.6	19	0.7	0.8	0.2	79	0.58	0.084	14
B33	Soil	3.2	90.3	24.9	98	0.5	12.0	20.4	1299	4.93	19.8	23.7	0.5	12	0.4	0.9	0.4	94	0.28	0.101	15
B34	Soil	4.1	102.2	18.6	148	0.3	18.0	15.6	1155	4.26	13.7	13.8	0.6	22	0.3	1.0	0.5	77	0.53	0.076	13
B35	Soil	8.1	73.7	23.5	95	0.3	11.5	13.1	974	4.78	19.4	54.9	0.4	15	0.7	0.9	0.8	108	0.34	0.056	8
B36	Soil	6.1	186.1	26.6	145	0.4	18.4	19.4	2422	4.30	20.9	15.6	0.2	15	1.2	1.1	0.6	83	0.22	0.083	13
B37	Soil	4.7	55.4	31.4	109	0.3	13.0	13.6	1143	4.72	21.5	10.2	0.4	15	0.4	1.6	0.6	100	0.23	0.064	7
B38	Soil	6.6	193.7	24.8	102	1.1	19.7	18.1	1313	3.95	16.7	14.2	0.5	27	1.7	1.2	0.4	72	0.72	0.078	25
B39	Soil	6.4	61.9	20.8	66	0.5	10.1	9.5	602	3.63	13.3	32.3	0.5	29	0.3	1.4	0.5	84	0.69	0.053	8
B40	Soil	3.9	68.5	36.2	104	<0.1	19.4	15.1	1068	4.77	15.3	2.7	1.3	19	0.2	1.7	0.5	89	0.26	0.129	8
BC01	Soil	1.7	21.5	14.0	51	0.2	5.6	7.0	477	3.04	9.0	12.9	<0.1	6	<0.1	0.5	0.3	50	0.06	0.108	10
BC02	Soil	1.8	20.7	15.2	56	0.5	5.8	8.0	491	4.16	11.2	10.3	0.1	6	0.2	0.7	0.3	69	0.06	0.081	9
BC03	Soil	1.7	14.6	8.5	29	0.2	4.1	3.6	224	2.21	4.3	9.5	<0.1	6	<0.1	0.3	0.3	51	0.06	0.107	8
BC04	Soil	2.3	24.2	12.2	55	0.3	5.3	6.7	619	3.06	7.4	1.5	0.1	12	0.2	0.5	0.3	51	0.20	0.161	11
BC05	Soil	1.9	20.6	12.6	82	0.5	5.6	6.9	1476	2.92	10.1	2.9	0.1	23	0.2	0.5	0.6	53	0.40	0.253	9
BC06	Soil	1.5	17.0	11.9	64	0.2	5.5	6.9	899	2.78	6.8	1.3	<0.1	14	0.2	0.5	0.3	49	0.20	0.128	9
BC07	Soil	1.4	19.2	10.8	43	0.1	4.4	5.3	262	2.91	7.7	3.8	<0.1	7	0.2	0.4	0.3	64	0.05	0.100	8
BC08	Soil	2.4	29.9	14.6	69	0.2	8.2	9.7	567	4.07	12.3	2.4	0.1	7	0.2	0.5	0.3	71	0.09	0.108	8
BC09	Soil	2.1	27.5	9.7	89	0.3	7.4	6.9	909	2.47	7.1	0.8	<0.1	15	0.2	0.4	0.4	51	0.25	0.220	8
BC10	Soil	1.6	47.7	16.7	89	0.2	10.8	13.9	1364	3.64	13.8	11.0	0.3	9	0.2	0.7	0.3	73	0.13	0.119	9



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Imperial Metals Corporation
200 - 580 Hornby St.
Vancouver British Columbia V6C 3B6 Canada

Project: Bear
Report Date: September 12, 2017

Page: 4 of 5

Part: 2 of 2

CERTIFICATE OF ANALYSIS

VAN17001895.1

Method	Analyte	AQ201	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	
Unit		ppm	%	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	0.05	1	0.5	0.2		
B21	Soil	22	0.27	123	0.032	<1	1.77	0.007	0.03	0.2	0.05	3.0	<0.1	<0.05	8	1.2	<0.2	
B22	Soil	26	0.69	139	0.015	<1	2.24	0.007	0.04	0.2	0.06	6.3	0.1	<0.05	7	0.9	<0.2	
B23	Soil	19	0.57	79	0.023	<1	2.14	0.005	0.10	0.3	0.05	4.6	<0.1	<0.05	9	<0.5	0.3	
B24	Soil	26	0.66	164	0.011	<1	2.70	0.006	0.06	0.2	0.04	7.2	<0.1	<0.05	9	<0.5	<0.2	
B25	Soil	21	0.55	49	0.039	<1	2.09	0.006	0.03	0.4	0.03	4.2	<0.1	<0.05	10	<0.5	<0.2	
B26	Soil	15	0.34	48	0.028	<1	1.59	0.005	0.04	0.3	0.03	2.8	<0.1	<0.05	8	0.5	0.2	
B27	Soil	22	0.48	78	0.029	<1	2.03	0.005	0.04	0.2	0.02	3.1	<0.1	<0.05	8	<0.5	0.3	
B28	Soil	26	0.73	84	0.023	2	2.00	0.008	0.04	0.2	0.05	6.7	<0.1	<0.05	5	0.7	<0.2	
B29	Soil	18	0.19	93	0.040	<1	1.45	0.006	0.03	0.3	0.03	3.0	<0.1	<0.05	9	<0.5	0.4	
B30	Soil	24	0.58	75	0.027	1	1.90	0.006	0.04	0.3	0.03	3.6	<0.1	<0.05	7	0.6	<0.2	
B31	Soil	29	0.49	36	0.056	1	1.74	0.005	0.03	0.3	0.05	3.5	<0.1	<0.05	7	0.7	<0.2	
B32	Soil	26	0.59	121	0.024	1	1.95	0.007	0.04	0.2	0.04	4.8	<0.1	<0.05	6	0.8	<0.2	
B33	Soil	24	0.59	79	0.030	<1	1.95	0.006	0.05	0.2	0.05	4.7	<0.1	<0.05	6	1.3	0.2	
B34	Soil	29	0.70	74	0.028	2	1.65	0.006	0.04	0.3	0.04	5.1	<0.1	<0.05	5	0.8	<0.2	
B35	Soil	25	0.32	64	0.024	2	1.70	0.005	0.04	0.4	0.04	3.1	<0.1	<0.05	7	<0.5	0.2	
B36	Soil	27	0.59	142	0.012	2	1.90	0.005	0.06	0.3	0.04	2.9	0.1	<0.05	6	0.5	<0.2	
B37	Soil	28	0.49	63	0.024	2	1.74	0.005	0.05	0.3	0.04	2.6	0.1	<0.05	7	<0.5	<0.2	
B38	Soil	28	0.51	83	0.031	1	1.93	0.007	0.04	0.3	0.09	6.3	<0.1	<0.05	6	0.9	<0.2	
B39	Soil	24	0.31	70	0.046	2	1.00	0.006	0.04	0.4	0.03	3.0	<0.1	<0.05	6	0.6	<0.2	
B40	Soil	40	0.70	52	0.036	<1	1.88	0.006	0.06	0.5	0.02	5.2	0.1	<0.05	6	0.6	<0.2	
BC01	Soil	13	0.45	52	0.007	2	1.62	0.006	0.08	0.1	0.04	0.9	0.1	0.06	4	<0.5	<0.2	
BC02	Soil	16	0.40	59	0.012	<1	1.80	0.006	0.05	0.2	0.05	1.4	<0.1	<0.05	5	<0.5	<0.2	
BC03	Soil	15	0.31	62	0.007	1	1.41	0.007	0.07	0.1	0.06	0.5	0.1	<0.05	5	<0.5	<0.2	
BC04	Soil	12	0.35	131	0.005	<1	2.13	0.009	0.13	0.1	0.04	0.7	0.2	0.09	6	1.2	<0.2	
BC05	Soil	15	0.33	331	0.006	<1	1.71	0.008	0.15	0.1	0.05	1.1	0.2	0.10	5	<0.5	0.2	
BC06	Soil	14	0.36	109	0.008	1	1.00	0.008	0.10	<0.1	0.03	0.5	<0.1	0.09	4	<0.5	<0.2	
BC07	Soil	13	0.27	50	0.007	<1	1.66	0.005	0.05	0.2	0.07	0.7	0.1	<0.05	5	0.5	<0.2	
BC08	Soil	20	0.57	44	0.019	2	2.06	0.006	0.07	0.2	0.04	2.1	0.1	<0.05	5	0.8	<0.2	
BC09	Soil	19	0.41	142	0.005	1	1.96	0.007	0.12	0.1	0.04	0.8	0.2	0.08	6	0.7	<0.2	
BC10	Soil	19	0.62	64	0.029	1	1.70	0.007	0.09	0.2	0.02	3.1	0.1	<0.05	5	<0.5	<0.2	



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **Imperial Metals Corporation**
200 - 580 Hornby St.
Vancouver British Columbia V6C 3B6 Canada

Project: Bear
Report Date: September 12, 2017

Page: 5 of 5

Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN17001895.1

Method	Analyte	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
Unit		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	2	0.01	0.001	1	
BC11	Soil	1.7	25.6	13.2	62	0.2	7.1	10.2	981	4.02	12.8	3.1	<0.1	8	0.3	0.5	0.5	81	0.07	0.110	8
BC12	Soil	2.0	29.3	11.4	66	0.4	7.8	9.8	810	3.60	11.6	5.4	<0.1	8	0.2	0.5	0.3	74	0.11	0.152	7
BC13	Soil	1.5	27.9	13.2	56	0.1	7.9	9.1	747	3.64	12.3	17.4	<0.1	11	0.2	0.6	0.5	87	0.10	0.075	8
BC14	Soil	2.0	39.8	15.0	65	0.1	8.7	12.6	1195	4.07	14.3	4.7	0.1	11	0.1	0.7	0.4	87	0.10	0.145	12
BC15	Soil	1.5	17.9	11.9	42	0.1	5.2	6.0	506	3.03	9.8	2.0	<0.1	10	0.1	0.5	0.4	74	0.07	0.087	8
BC16	Soil	1.6	22.6	11.6	70	0.2	6.5	11.1	1677	3.08	10.9	3.6	<0.1	13	0.3	0.6	0.3	77	0.16	0.134	6
BC17	Soil	1.5	42.0	11.9	77	0.4	9.0	11.5	692	3.68	14.0	4.2	<0.1	13	0.3	0.5	0.3	79	0.10	0.071	9
BC18	Soil	1.0	26.9	28.1	117	0.2	5.6	29.4	4930	3.41	7.7	1.5	<0.1	26	1.9	0.4	0.3	66	0.38	0.239	7
BC19	Soil	1.0	34.9	30.3	120	0.3	6.8	36.4	7484	3.54	8.0	0.8	<0.1	18	2.7	0.4	0.3	68	0.40	0.280	6
BC20	Soil	1.1	17.2	12.6	39	0.3	3.0	7.6	1853	2.26	9.3	2.2	<0.1	10	0.2	0.4	0.5	52	0.06	0.161	9
BC21	Soil	1.5	18.5	41.3	38	0.3	2.4	4.1	452	2.53	10.5	5.6	<0.1	10	0.2	0.4	0.4	50	0.05	0.134	13
BC22	Soil	5.4	58.9	388.0	81	0.8	2.1	7.6	806	4.07	10.4	3.0	1.3	23	0.3	0.9	0.4	20	0.02	0.142	17
BC23	Soil	2.6	23.3	42.7	64	0.4	3.9	8.7	1570	3.04	12.2	1.0	<0.1	8	0.7	0.4	0.4	69	0.05	0.143	9
BC24	Soil	2.6	34.6	162.9	65	0.3	3.6	10.0	1937	3.07	6.3	1.4	<0.1	15	0.7	0.6	0.3	56	0.11	0.121	15



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **Imperial Metals Corporation**
200 - 580 Hornby St.
Vancouver British Columbia V6C 3B6 Canada

Project: Bear
Report Date: September 12, 2017

Page: 5 of 5

Part: 2 of 2

CERTIFICATE OF ANALYSIS

VAN17001895.1

Method	Analyte	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
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	0.05	1	0.5	0.2	
BC11	Soil	18	0.43	64	0.016	<1	1.84	0.006	0.06	0.1	0.06	1.0	0.1	0.08	6	<0.5	<0.2
BC12	Soil	19	0.56	62	0.013	<1	1.79	0.006	0.08	0.1	0.04	1.2	0.1	0.06	5	0.5	<0.2
BC13	Soil	18	0.47	71	0.019	<1	2.04	0.006	0.06	0.1	0.04	1.6	0.1	<0.05	8	<0.5	<0.2
BC14	Soil	22	0.50	76	0.018	2	2.12	0.006	0.07	0.2	0.06	2.2	0.1	<0.05	7	0.5	<0.2
BC15	Soil	15	0.24	59	0.008	<1	1.19	0.007	0.06	0.1	0.03	0.3	0.1	<0.05	6	<0.5	<0.2
BC16	Soil	16	0.29	176	0.007	1	1.07	0.006	0.07	0.1	0.09	0.4	<0.1	0.06	5	<0.5	<0.2
BC17	Soil	16	0.68	114	0.017	1	1.62	0.009	0.08	0.1	0.03	2.1	<0.1	<0.05	5	<0.5	0.2
BC18	Soil	12	0.24	349	0.006	1	1.06	0.008	0.09	<0.1	0.02	0.5	<0.1	0.09	5	<0.5	<0.2
BC19	Soil	13	0.39	467	0.005	2	1.18	0.008	0.11	<0.1	0.07	0.8	<0.1	0.12	4	<0.5	0.2
BC20	Soil	10	0.13	124	0.004	<1	0.95	0.006	0.08	0.1	0.04	0.2	0.1	0.07	4	<0.5	<0.2
BC21	Soil	8	0.15	96	0.003	<1	1.06	0.009	0.09	<0.1	0.04	0.3	0.1	0.09	5	<0.5	<0.2
BC22	Soil	5	0.14	141	0.002	<1	1.44	0.043	0.15	<0.1	0.04	2.0	0.1	0.35	3	<0.5	<0.2
BC23	Soil	12	0.24	77	0.006	<1	1.31	0.007	0.07	<0.1	0.07	0.4	0.2	0.07	6	0.6	<0.2
BC24	Soil	10	0.13	208	0.006	<1	1.01	0.013	0.09	0.1	0.04	0.7	0.2	0.11	5	<0.5	<0.2



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

Client: Imperial Metals Corporation
200 - 580 Hornby St.
Vancouver British Columbia V6C 3B6 Canada

Project: Bear
Report Date: September 12, 2017

Page: 1 of 1 Part: 1 of 2

QUALITY CONTROL REPORT

VAN17001895.1

Method	Analyte	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
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	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	2	0.01	0.001	1	
Pulp Duplicates																					
A16	Soil	1.0	38.7	8.1	63	0.1	5.4	7.9	358	4.45	8.5	1.1	0.1	11	0.2	0.3	0.2	112	0.17	0.080	6
REP A16	QC	1.2	41.7	8.7	68	0.2	5.9	8.2	392	4.72	9.0	5.6	0.1	12	0.1	0.3	0.2	115	0.19	0.088	6
B12	Soil	10.5	23.4	12.0	85	0.2	6.0	6.8	595	3.79	5.2	4.0	0.4	22	0.4	0.5	2.6	114	0.38	0.053	6
REP B12	QC	10.9	21.9	11.8	86	0.2	6.0	7.0	609	3.83	5.4	2.9	0.4	23	0.4	0.5	2.5	115	0.37	0.053	6
BC06	Soil	1.5	17.0	11.9	64	0.2	5.5	6.9	899	2.78	6.8	1.3	<0.1	14	0.2	0.5	0.3	49	0.20	0.128	9
REP BC06	QC	1.6	16.4	11.4	64	0.2	5.2	6.8	866	2.66	7.2	1.6	<0.1	14	<0.1	0.4	0.3	48	0.20	0.128	9
Reference Materials																					
STD DS11	Standard	12.9	143.9	132.6	328	1.5	76.0	12.9	1000	3.01	41.4	63.2	7.2	58	2.1	8.5	10.8	47	0.95	0.071	17
STD DS11	Standard	13.4	150.9	131.5	326	1.6	78.1	13.9	983	3.05	40.0	55.2	6.8	66	2.3	9.6	13.2	49	0.96	0.064	18
STD DS11	Standard	15.3	161.9	139.3	371	1.7	84.2	14.4	1090	3.28	44.4	84.6	7.4	69	2.5	9.0	12.1	57	1.06	0.072	19
STD OXC129	Standard	1.3	27.8	6.4	41	<0.1	79.2	20.4	426	3.08	1.1	186.9	1.9	175	<0.1	<0.1	<0.1	55	0.64	0.096	12
STD OXC129	Standard	1.2	27.8	6.1	40	<0.1	81.1	20.7	404	3.03	<0.5	202.5	1.8	182	<0.1	<0.1	<0.1	54	0.66	0.097	13
STD OXC129	Standard	1.3	28.3	6.3	43	<0.1	80.1	20.8	435	3.10	<0.5	196.0	1.8	184	<0.1	<0.1	<0.1	57	0.65	0.105	12
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
STD DS11 Expected		14.6	156	138	345	1.71	81.9	14.2	1055	3.2082	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701	18.6
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



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

Client: Imperial Metals Corporation
200 - 580 Hornby St.
Vancouver British Columbia V6C 3B6 Canada

Project: Bear
Report Date: September 12, 2017

Page: 1 of 1

Part: 2 of 2

QUALITY CONTROL REPORT

VAN17001895.1

Method	Analyte	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
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	0.05	1	0.5	0.2	
Pulp Duplicates																	
A16	Soil	13	0.47	67	0.018	2	2.02	0.006	0.05	0.2	0.04	2.5	0.1	0.14	8	<0.5	<0.2
REP A16	QC	14	0.48	72	0.019	1	2.11	0.006	0.06	0.2	0.04	2.6	0.1	0.17	8	0.7	<0.2
B12	Soil	16	0.29	190	0.034	<1	1.28	0.006	0.05	0.3	0.02	2.8	<0.1	<0.05	9	<0.5	0.9
REP B12	QC	16	0.29	189	0.037	<1	1.32	0.006	0.05	0.3	0.01	2.7	<0.1	<0.05	8	<0.5	0.9
BC06	Soil	14	0.36	109	0.008	1	1.00	0.008	0.10	<0.1	0.03	0.5	<0.1	0.09	4	<0.5	<0.2
REP BC06	QC	13	0.35	109	0.008	1	0.96	0.008	0.10	<0.1	0.02	0.5	0.1	0.09	4	<0.5	<0.2
Reference Materials																	
STD DS11	Standard	56	0.77	334	0.080	5	1.04	0.068	0.36	2.8	0.27	3.0	4.6	0.21	4	2.4	4.6
STD DS11	Standard	57	0.81	346	0.086	5	1.05	0.067	0.36	3.0	0.25	2.9	4.6	0.28	5	2.3	4.7
STD DS11	Standard	64	0.84	391	0.096	7	1.13	0.070	0.39	3.2	0.24	3.7	5.0	0.33	5	2.4	5.0
STD OXC129	Standard	53	1.49	48	0.388	<1	1.42	0.563	0.35	<0.1	<0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	53	1.49	48	0.406	<1	1.48	0.574	0.35	<0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	54	1.53	49	0.406	2	1.55	0.588	0.36	<0.1	<0.01	2.0	<0.1	0.08	5	<0.5	<0.2
STD OXC129 Expected		52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6		
STD DS11 Expected		61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.3	3.4	4.9	0.2835	5.1	1.9	4.56
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	0.11	<1	<0.5	<0.2



AQ300, AQ200

Package Description	Geochemical aqua regia digestion
Sample Digestion	HNO ₃ -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	Element	AQ300 Detection	AQ200 Detection	Upper Limit
Ag	0.3 ppm	0.1 ppm	100 ppm	Na*	0.01 %	0.001 %	5 %
Al*	0.01 %	0.01 %	10 %	Ni	1 ppm	0.1 ppm	10000 ppm
As	2 ppm	0.5 ppm	10000 ppm	P*	0.001 %	0.001 %	5 %
Au	-	0.5 ppb	100 ppm	Pb	3 ppm	0.1 ppm	10000 ppm
B*^	20 ppm	20 ppm	2000 ppm	S	0.05 %	0.05 %	10 %
Ba*	1 ppm	1 ppm	10000 ppm	Sb	3 ppm	0.1 ppm	2000 ppm
Bi	3 ppm	0.1 ppm	2000 ppm	Sc	-	0.1 ppm	100 ppm
Ca*	0.01 %	0.01 %	40 %	Se	-	0.5 ppm	100 ppm
Cd	0.5 ppm	0.1 ppm	2000 ppm	Sr*	1 ppm	1 ppm	10000 ppm
Co	1 ppm	0.1 ppm	2000 ppm	Te	-	0.2 ppm	1000 ppm
Cr*	1 ppm	1 ppm	10000 ppm	Th*	2 ppm	0.1 ppm	2000 ppm
Cu	1 ppm	0.1 ppm	10000 ppm	Ti*	0.01 %	0.001 %	5 %
Fe*	0.01 %	0.01 %	40 %	Tl	5 ppm	0.1 ppm	1000 ppm
Ga*	-	1 ppm	1000 ppm	U*	8 ppm	0.1 ppm	2000 ppm
Hg	1 ppm	0.01 ppm	50 ppm	V*	1 ppm	2 ppm	10000 ppm
K*	0.01 %	0.01 %	10 %	W*	2 ppm	0.1 ppm	100 ppm
La*	1 ppm	1 ppm	10000 ppm	Zn	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				

* 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 & DESCRIPTIONS

1. 2017 Geochemical Sampling / Soils

BEAR PROPERTY - 2017 SOIL SAMPLE LOCATIONS AND DESCRIPTIONS

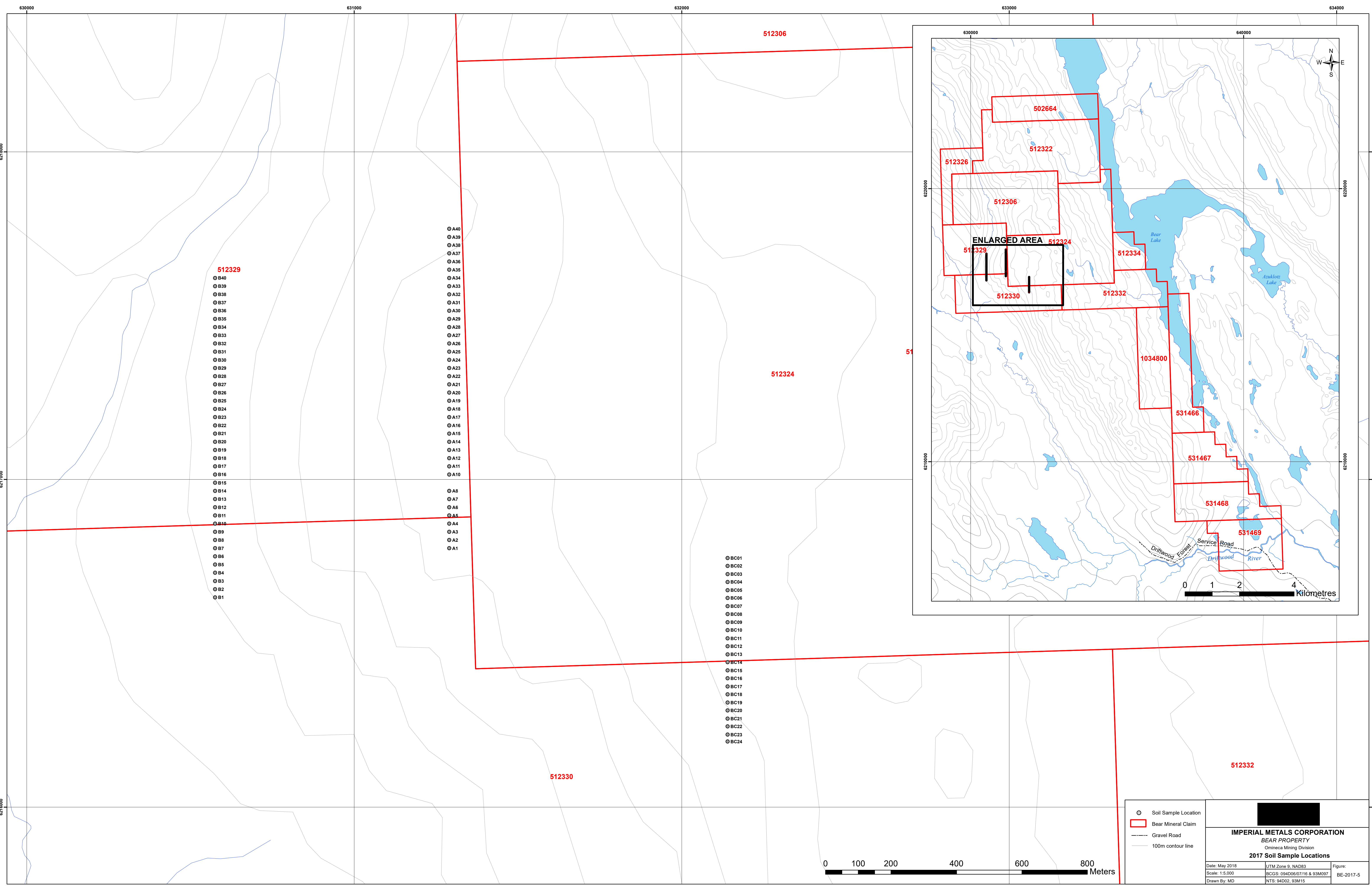
Project	Sample Type	SampleID	Easting NAD83_09	Northing NAD83_09	Elevation	Sampler	Date Sampled	Notes Tenure Number
Bear	B-Horizon	A-1	631290	6216790			21-Aug-17	512330
Bear	B-Horizon	A-2	631290	6216815			21-Aug-17	512330
Bear	B-Horizon	A-3	631290	6216840			21-Aug-17	512330
Bear	B-Horizon	A-4	631290	6216865			21-Aug-17	512330
Bear	B-Horizon	A-5	631290	6216890			21-Aug-17	512329
Bear	B-Horizon	A-6	631290	6216915			21-Aug-17	512329
Bear	B-Horizon	A-7	631290	6216940			21-Aug-17	512329
Bear	B-Horizon	A-8	631290	6216965			21-Aug-17	512329
Bear	B-Horizon	A-9	631290	6216990			21-Aug-17	512329
Bear	B-Horizon	A-10	631290	6217015			21-Aug-17	512329
Bear	B-Horizon	A-11	631290	6217040			21-Aug-17	512329
Bear	B-Horizon	A-12	631290	6217065			21-Aug-17	512329
Bear	B-Horizon	A-13	631290	6217090			21-Aug-17	512329
Bear	B-Horizon	A-14	631290	6217115			21-Aug-17	512329
Bear	B-Horizon	A-15	631290	6217140			21-Aug-17	512329
Bear	B-Horizon	A-16	631290	6217165			21-Aug-17	512329
Bear	B-Horizon	A-17	631290	6217190			21-Aug-17	512329
Bear	B-Horizon	A-18	631290	6217215			21-Aug-17	512329
Bear	B-Horizon	A-19	631290	6217240			21-Aug-17	512329
Bear	B-Horizon	A-20	631290	6217265			21-Aug-17	512329
Bear	B-Horizon	A-21	631290	6217290			21-Aug-17	512329
Bear	B-Horizon	A-22	631290	6217315			21-Aug-17	512329
Bear	B-Horizon	A-23	631290	6217340			21-Aug-17	512329
Bear	B-Horizon	A-24	631290	6217365			21-Aug-17	512329
Bear	B-Horizon	A-25	631290	6217390			21-Aug-17	512329
Bear	B-Horizon	A-26	631290	6217415			21-Aug-17	512329
Bear	B-Horizon	A-27	631290	6217440			21-Aug-17	512329
Bear	B-Horizon	A-28	631290	6217465			21-Aug-17	512329
Bear	B-Horizon	A-29	631290	6217490			21-Aug-17	512329
Bear	B-Horizon	A-30	631290	6217515			21-Aug-17	512329
Bear	B-Horizon	A-31	631290	6217540			21-Aug-17	512329
Bear	B-Horizon	A-32	631290	6217565			21-Aug-17	512329

Bear	B-Horizon	A-33	631290	6217590		21-Aug-17	512329
Bear	B-Horizon	A-34	631290	6217615		21-Aug-17	512329
Bear	B-Horizon	A-35	631290	6217640		21-Aug-17	512329
Bear	B-Horizon	A-36	631290	6217665		21-Aug-17	512329
Bear	B-Horizon	A-37	631290	6217690		21-Aug-17	512329
Bear	B-Horizon	A-38	631290	6217715		21-Aug-17	512329
Bear	B-Horizon	A-39	631290	6217740		21-Aug-17	512329
Bear	B-Horizon	A-40	631290	6217765		21-Aug-17	512329
Bear	B-Horizon	B-1	630575	6216640		20-Aug-17	512330
Bear	B-Horizon	B-2	630575	6216665		20-Aug-17	512330
Bear	B-Horizon	B-3	630575	6216690		20-Aug-17	512330
Bear	B-Horizon	B-4	630575	6216715		20-Aug-17	512330
Bear	B-Horizon	B-5	630575	6216740		20-Aug-17	512330
Bear	B-Horizon	B-6	630575	6216765		20-Aug-17	512330
Bear	B-Horizon	B-7	630575	6216790		20-Aug-17	512330
Bear	B-Horizon	B-8	630575	6216815		20-Aug-17	512330
Bear	B-Horizon	B-9	630575	6216840		20-Aug-17	512330
Bear	B-Horizon	B-10	630575	6216865		20-Aug-17	512329
Bear	B-Horizon	B-11	630575	6216890		20-Aug-17	512329
Bear	B-Horizon	B-12	630575	6216915		20-Aug-17	512329
Bear	B-Horizon	B-13	630575	6216940		20-Aug-17	512329
Bear	B-Horizon	B-14	630575	6216965		20-Aug-17	512329
Bear	B-Horizon	B-15	630575	6216990		20-Aug-17	512329
Bear	B-Horizon	B-16	630575	6217015		20-Aug-17	512329
Bear	B-Horizon	B-17	630575	6217040		20-Aug-17	512329
Bear	B-Horizon	B-18	630575	6217065		20-Aug-17	512329
Bear	B-Horizon	B-19	630575	6217090		20-Aug-17	512329
Bear	B-Horizon	B-20	630575	6217115		20-Aug-17	512329
Bear	B-Horizon	B-21	630575	6217140		20-Aug-17	512329
Bear	B-Horizon	B-22	630575	6217165		20-Aug-17	512329
Bear	B-Horizon	B-23	630575	6217190		20-Aug-17	512329
Bear	B-Horizon	B-24	630575	6217215		20-Aug-17	512329
Bear	B-Horizon	B-25	630575	6217240		20-Aug-17	512329
Bear	B-Horizon	B-26	630575	6217265		20-Aug-17	512329
Bear	B-Horizon	B-27	630575	6217290		20-Aug-17	512329
Bear	B-Horizon	B-28	630575	6217315		20-Aug-17	512329

Bear	B-Horizon	B-29	630575	6217340			20-Aug-17	512329
Bear	B-Horizon	B-30	630575	6217365			20-Aug-17	512329
Bear	B-Horizon	B-31	630575	6217390			20-Aug-17	512329
Bear	B-Horizon	B-32	630575	6217415			20-Aug-17	512329
Bear	B-Horizon	B-33	630575	6217440			20-Aug-17	512329
Bear	B-Horizon	B-34	630575	6217465			20-Aug-17	512329
Bear	B-Horizon	B-35	630575	6217490			20-Aug-17	512329
Bear	B-Horizon	B-36	630575	6217515			20-Aug-17	512329
Bear	B-Horizon	B-37	630575	6217540			20-Aug-17	512329
Bear	B-Horizon	B-38	630575	6217565			20-Aug-17	512329
Bear	B-Horizon	B-39	630575	6217590			20-Aug-17	512329
Bear	B-Horizon	B-40	630575	6217615			20-Aug-17	512329
Bear	B-Horizon	BC-01	632140	6216760	1618		20-Aug-17	512324
Bear	B-Horizon	BC-02	632140	6216736			20-Aug-17	512324
Bear	B-Horizon	BC-03	632140	6216711			20-Aug-17	512324
Bear	B-Horizon	BC-04	632140	6216687			20-Aug-17	512324
Bear	B-Horizon	BC-05	632140	6216662			20-Aug-17	512324
Bear	B-Horizon	BC-06	632140	6216638			20-Aug-17	512324
Bear	B-Horizon	BC-07	632140	6216613			20-Aug-17	512324
Bear	B-Horizon	BC-08	632140	6216589			20-Aug-17	512324
Bear	B-Horizon	BC-09	632140	6216564			20-Aug-17	512324
Bear	B-Horizon	BC-10	632140	6216540			20-Aug-17	512324
Bear	B-Horizon	BC-11	632140	6216515			20-Aug-17	512324
Bear	B-Horizon	BC-12	632140	6216491			20-Aug-17	512324
Bear	B-Horizon	BC-13	632140	6216466			20-Aug-17	512324
Bear	B-Horizon	BC-14	632140	6216442			20-Aug-17	512330
Bear	B-Horizon	BC-15	632140	6216417			20-Aug-17	512330
Bear	B-Horizon	BC-16	632140	6216393			20-Aug-17	512330
Bear	B-Horizon	BC-17	632140	6216368			20-Aug-17	512330
Bear	B-Horizon	BC-18	632140	6216344			20-Aug-17	512330
Bear	B-Horizon	BC-19	632140	6216319			20-Aug-17	512330
Bear	B-Horizon	BC-20	632140	6216295			20-Aug-17	512330
Bear	B-Horizon	BC-21	632140	6216270			20-Aug-17	512330
Bear	B-Horizon	BC-22	632140	6216246			20-Aug-17	512330
Bear	B-Horizon	BC-23	632140	6216221			20-Aug-17	512330
Bear	B-Horizon	BC-24	632140	6216200	1564		20-Aug-17	512330

SECTION F: ILLUSTRATIONS

Figure Number	Title	Scale
BE-2017-1 (p.4)	BC Location Plan	1:8 000 000
BE-2017-2 (p.5)	General Location Plan	1:1 250 000
BE-2017-3 (p.6)	Mineral Tenure	1:90 000
BE-2017-4 (p.9)	Regional Geology	1: 200 000
BE-2017-5 (in pocket)	Sample Locations (2015)	1:5 000
BE-2017-6 (in pocket)	2017 Soil Sampling : Cu (ppm)	1:5 000
BE-2017-7 (in pocket)	2017 Soil Sampling: Mo (ppm)	1:5 000
BE-2017-8 (in pocket)	2017 Soil Sampling: Zn (ppm)	1:5 000
BE-2017-9 (in pocket)	2017 Soil Sampling: Au (ppb)	1:5 000



512329

- B40
- B39
- B38
- B37
- B36
- B35
- B34
- B33
- B32
- B31
- B30
- B29
- B28
- B27
- B26
- B25
- B24
- B23
- B22
- B21
- B20
- B19
- B18
- B17
- B16
- B15
- B14
- B13
- B12
- B11
- B10
- B9
- B8
- B7
- B6
- B5
- B4
- B3
- B2
- B1

- A40
- A39
- A38
- A37
- A36
- A35
- A34
- A33
- A32
- A31
- A30
- A29
- A28
- A27
- A26
- A25
- A24
- A23
- A22
- A21
- A20
- A19
- A18
- A17
- A16
- A15
- A14
- A13
- A12
- A11
- A10

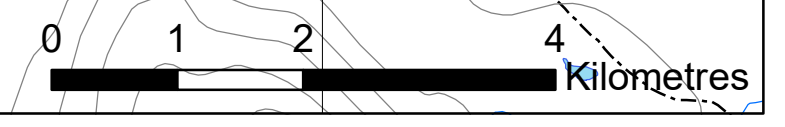
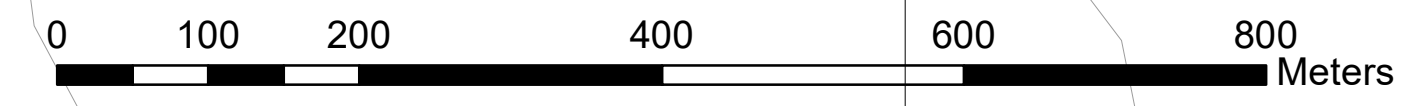
- A8
- A7
- A6
- A5
- A4
- A3
- A2
- A1

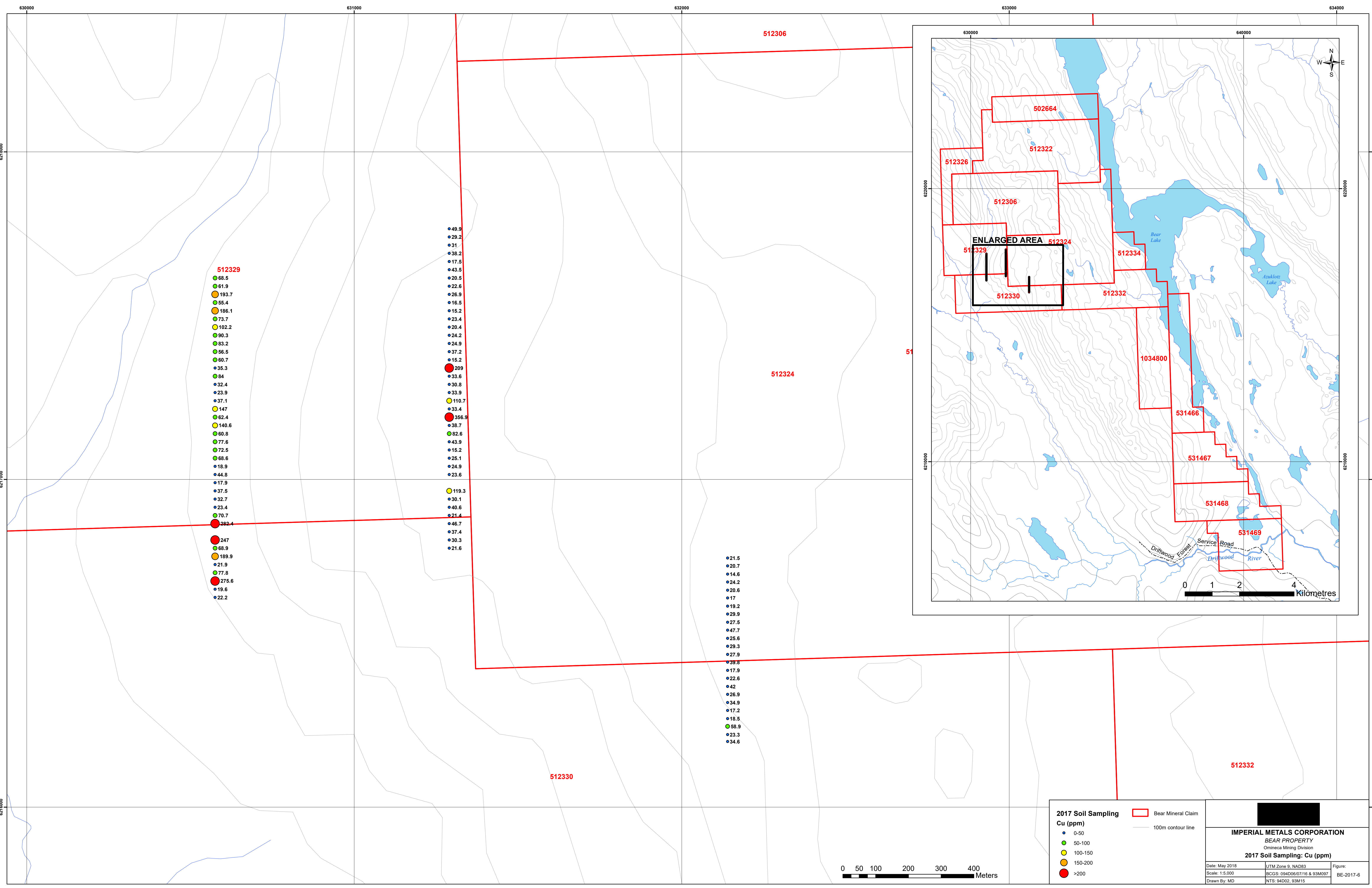
- BC01
- BC02
- BC03
- BC04
- BC05
- BC06
- BC07
- BC08
- BC09
- BC10
- BC11
- BC12
- BC13
- BC14
- BC15
- BC16
- BC17
- BC18
- BC19
- BC20
- BC21
- BC22
- BC23
- BC24

ENLARGED AREA

- Soil Sample Location
- Bear Mineral Claim
- - - Gravel Road
- 100m contour line

IMPERIAL METALS CORPORATION		
<i>BEAR PROPERTY</i>		
Omineca Mining Division		
2017 Soil Sample Locations		
Date: May 2018	UTM Zone 9, NAD83	Figure:
Scale: 1:5,000	BCGS: 094D06/0716 & 93M097	BE-2017-5
Drawn By: MD	NTS: 94D02, 93M15	

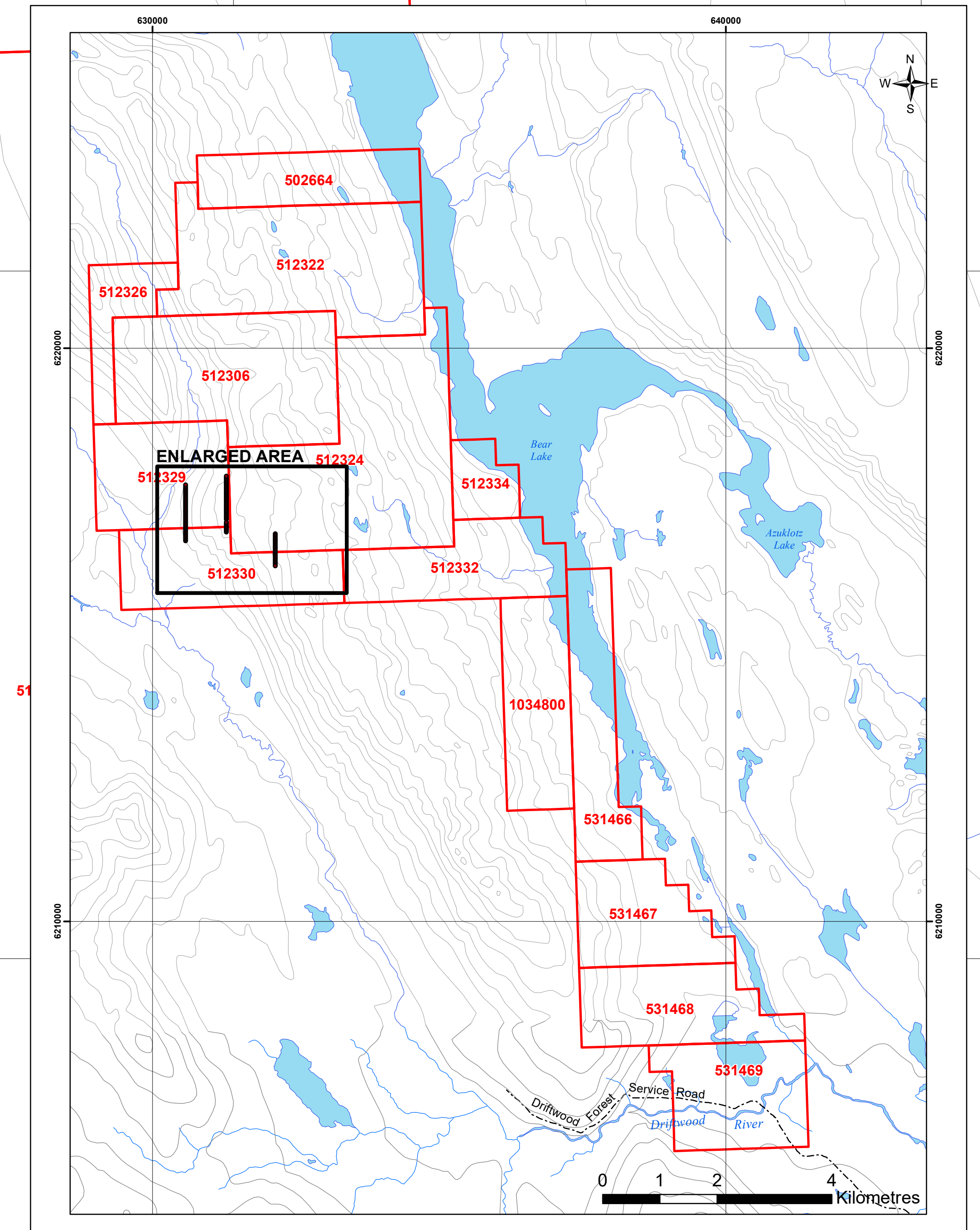




- 512329**
- 68.5
 - 61.9
 - 193.7
 - 55.4
 - 186.1
 - 73.7
 - 102.2
 - 90.3
 - 83.2
 - 56.5
 - 60.7
 - 35.3
 - 84
 - 32.4
 - 23.9
 - 37.1
 - 147
 - 62.4
 - 140.6
 - 60.8
 - 77.6
 - 72.5
 - 68.6
 - 18.9
 - 44.8
 - 17.9
 - 37.5
 - 32.7
 - 23.4
 - 70.7
 - 282.4
 - 247
 - 68.9
 - 189.9
 - 21.9
 - 77.8
 - 275.6
 - 19.6
 - 22.2

- 49.9
- 29.2
- 31
- 38.2
- 17.5
- 43.5
- 20.5
- 22.6
- 26.9
- 16.5
- 15.2
- 20.4
- 24.2
- 24.9
- 37.2
- 15.2
- 209
- 33.6
- 30.8
- 33.9
- 110.7
- 33.4
- 356.9
- 38.7
- 62.6
- 43.9
- 15.2
- 25.1
- 24.9
- 23.6
- 119.3
- 30.1
- 40.6
- 21.4
- 46.7
- 37.4
- 30.3
- 21.6

- 21.5
- 20.7
- 14.6
- 24.2
- 20.6
- 17
- 19.2
- 29.9
- 27.5
- 47.7
- 25.6
- 29.3
- 27.9
- 39.8
- 17.9
- 22.6
- 42
- 26.9
- 34.9
- 17.2
- 18.5
- 58.9
- 23.3
- 34.6



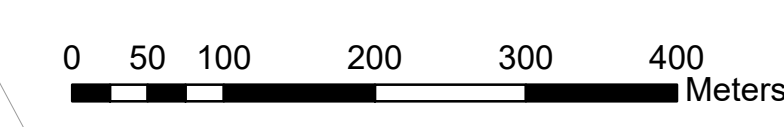
2017 Soil Sampling

Cu (ppm)

- 0-50
- 50-100
- 100-150
- 150-200
- >200

— Bear Mineral Claim

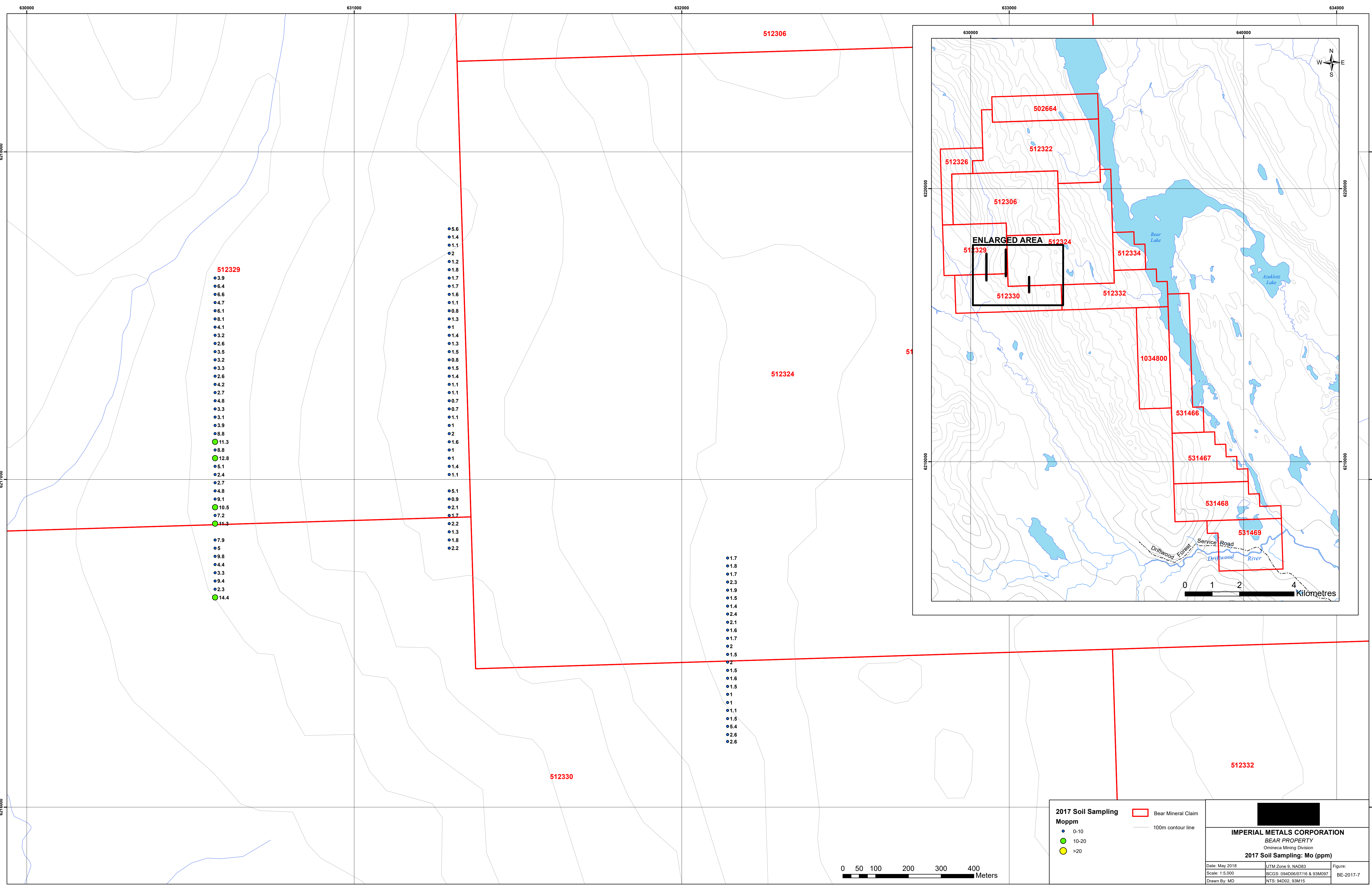
— 100m contour line



IMPERIAL METALS CORPORATION
BEAR PROPERTY
 Omineca Mining Division

2017 Soil Sampling: Cu (ppm)

Date: May 2018	UTM Zone 9, NAD83	Figure:
Scale: 1:5,000	BCGS: 094D06/0716 & 93M097	BE-2017-6
Drawn By: MD	NTS: 94D02, 93M15	

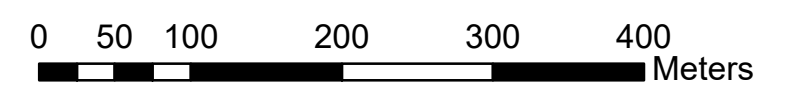
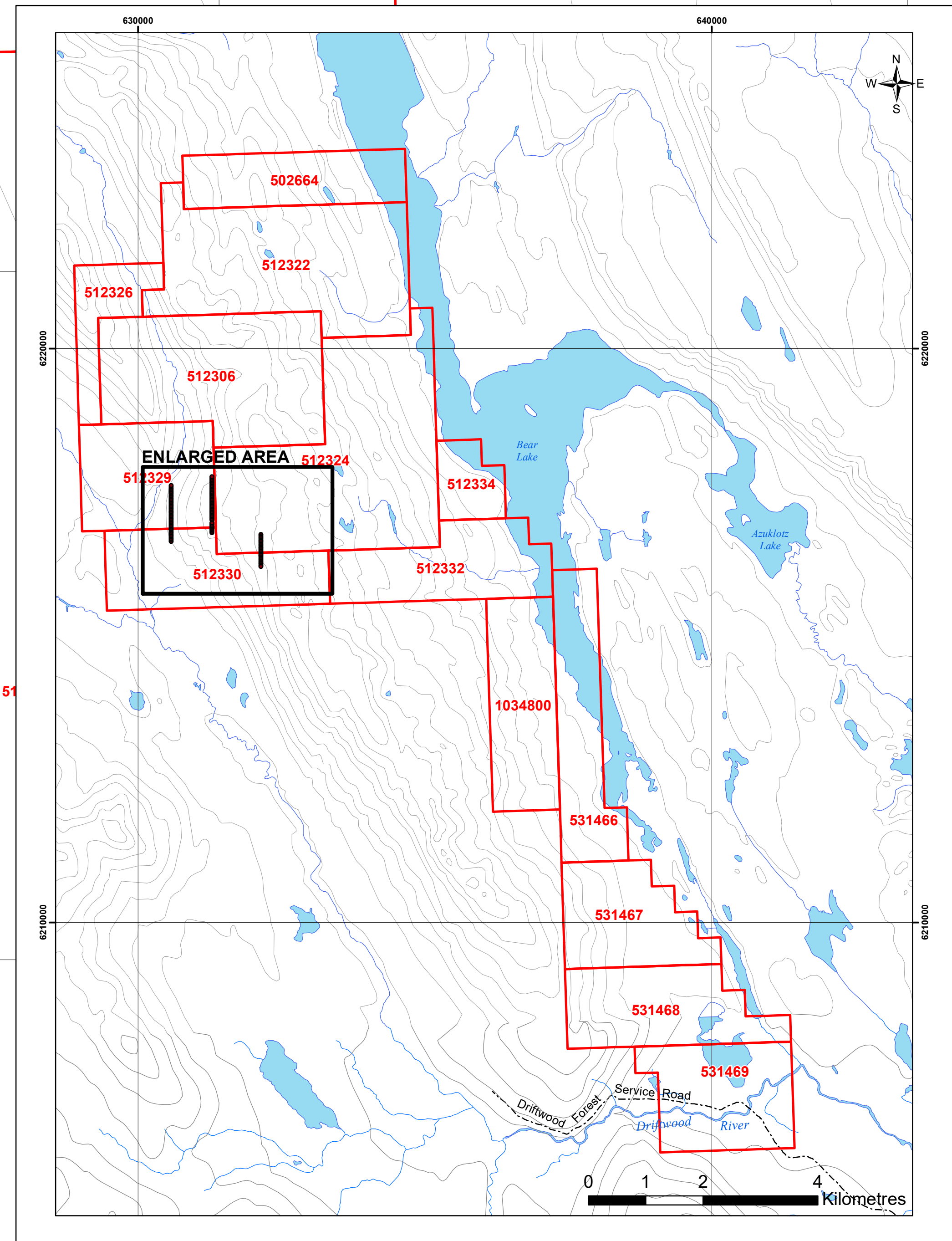


512329

- 3.9
- 6.4
- 6.6
- 4.7
- 6.1
- 8.1
- 4.1
- 3.2
- 2.6
- 3.5
- 3.2
- 3.3
- 2.6
- 4.2
- 2.7
- 4.8
- 3.3
- 3.1
- 3.9
- 8.8
- 8.8
- 11.3
- 8.8
- 12.8
- 5.1
- 2.4
- 2.7
- 4.8
- 9.1
- 10.5
- 7.2
- 11.3
- 7.9
- 5
- 9.8
- 4.4
- 3.3
- 9.4
- 2.3
- 14.4

- 5.6
- 1.4
- 1.1
- 2
- 1.2
- 1.8
- 1.7
- 1.7
- 1.6
- 1.1
- 0.8
- 1.3
- 1
- 1.4
- 1.3
- 1.5
- 0.8
- 1.5
- 1.4
- 1.1
- 2.1
- 0.7
- 0.7
- 1.1
- 1
- 2
- 1.6
- 1
- 1
- 1.4
- 0.9
- 2.1
- 1.7
- 1.1
- 2.2
- 1.3
- 1.8
- 2.2

- 1.7
- 1.8
- 1.7
- 2.3
- 1.9
- 1.5
- 1.4
- 2.4
- 2.1
- 1.6
- 1.7
- 2
- 1.5
- 2
- 1.5
- 1.6
- 1.5
- 1
- 1
- 1.1
- 1.5
- 5.4
- 2.6
- 2.6



2017 Soil Sampling
Moppm

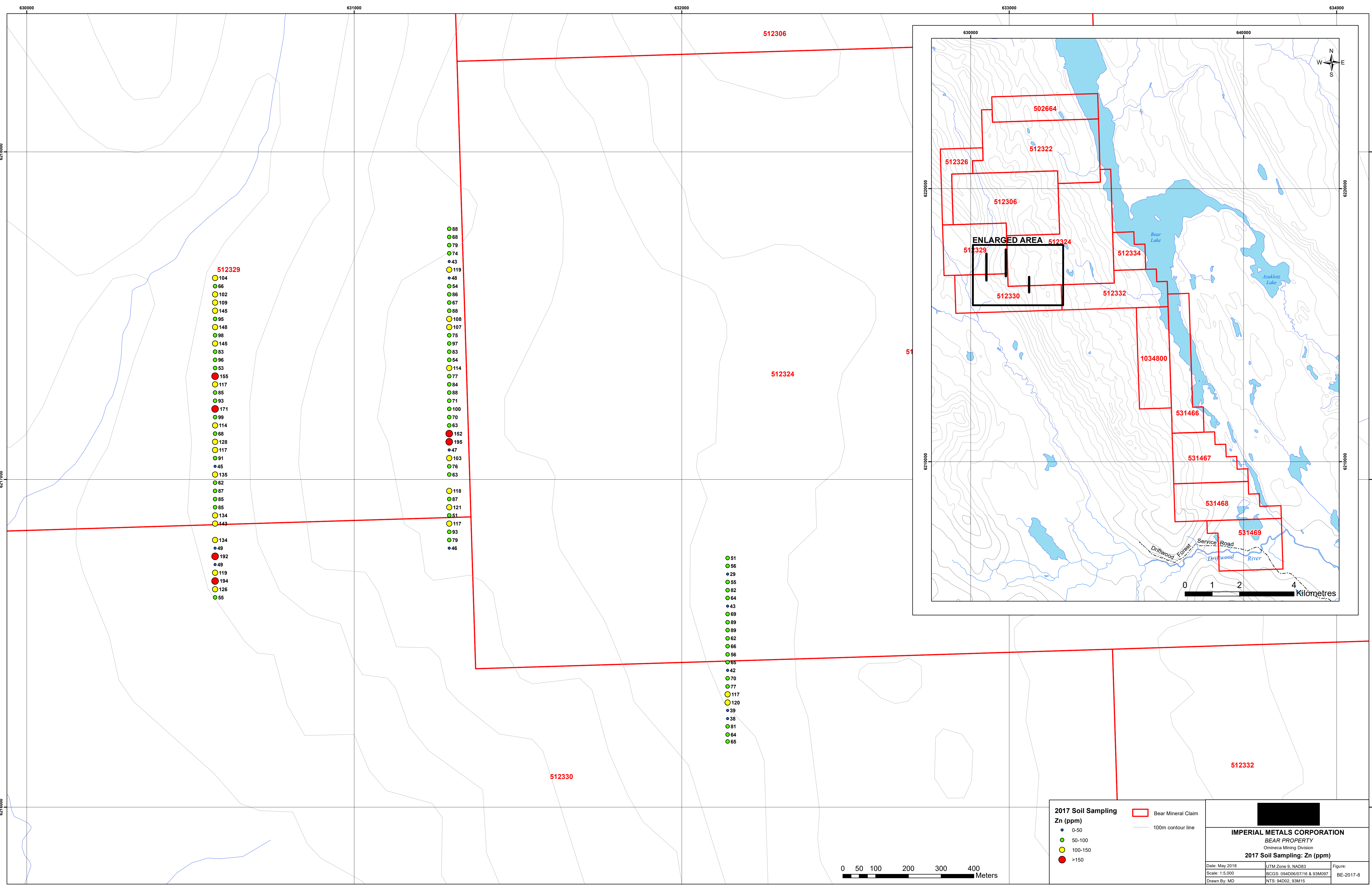
- 0-10
- 10-20
- >20

Bear Mineral Claim
 100m contour line

IMPERIAL METALS CORPORATION
BEAR PROPERTY
Omineca Mining Division

2017 Soil Sampling: Mo (ppm)

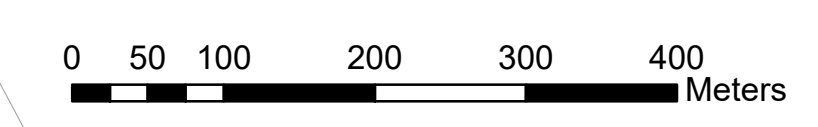
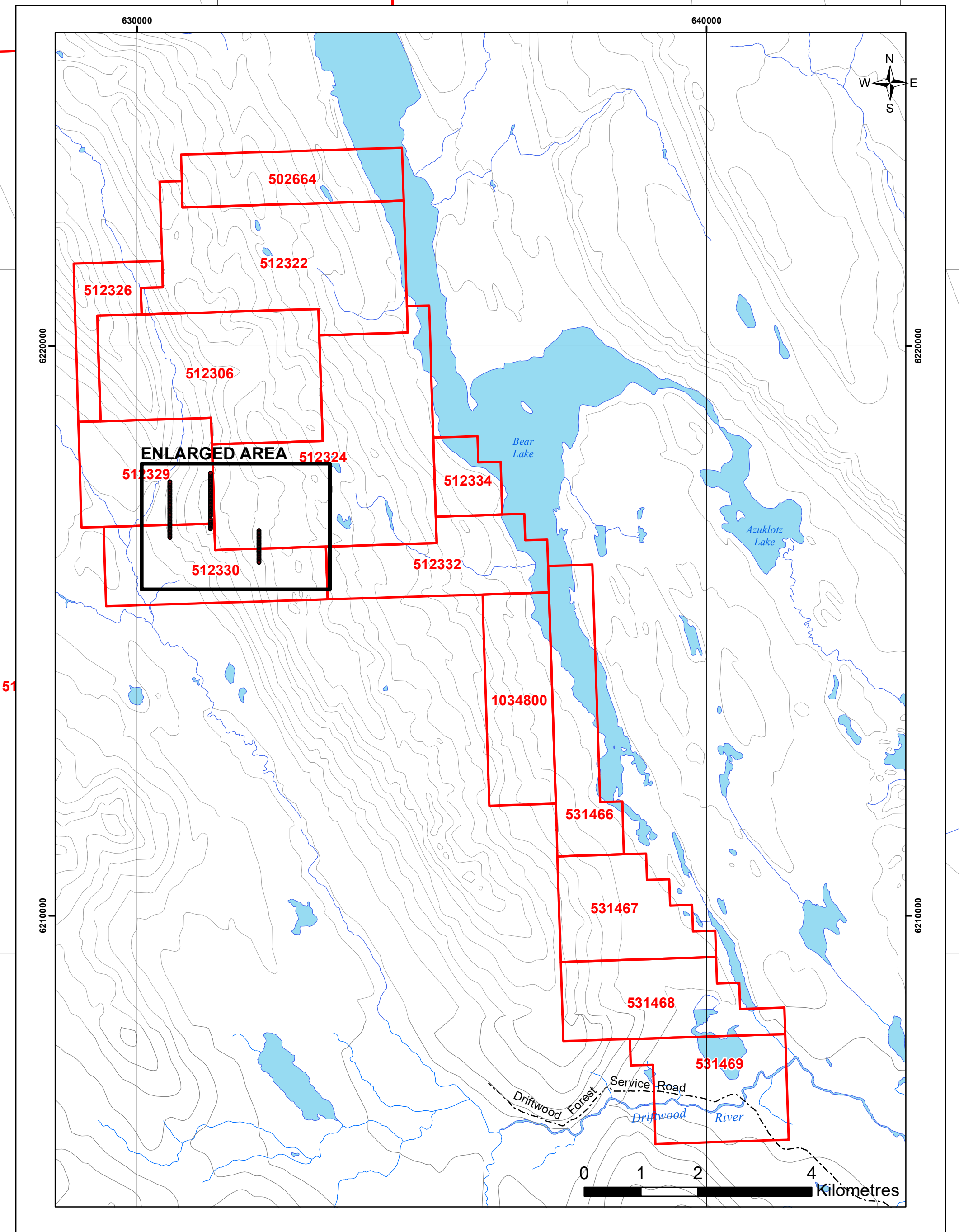
Date: May 2018	UTM Zone 9, NAD83	Figure:
Scale: 1:5,000	BCGS: 094D06/0716 & 93M097	BE-2017-7
Drawn By: MD	NTS: 94D02, 93M15	



- 512329**
- 104
 - 66
 - 102
 - 109
 - 145
 - 95
 - 148
 - 98
 - 145
 - 83
 - 96
 - 53
 - 155
 - 117
 - 85
 - 93
 - 171
 - 99
 - 114
 - 68
 - 128
 - 117
 - 91
 - 45
 - 135
 - 62
 - 87
 - 85
 - 85
 - 134
 - 143
 - 134
 - 49
 - 192
 - 49
 - 119
 - 194
 - 126
 - 55

- 88
- 68
- 79
- 74
- 43
- 119
- 48
- 54
- 86
- 67
- 88
- 108
- 107
- 75
- 97
- 83
- 54
- 114
- 77
- 84
- 88
- 71
- 100
- 70
- 63
- 152
- 195
- 47
- 103
- 76
- 63
- 118
- 87
- 121
- 51
- 117
- 93
- 79
- 46

- 51
- 56
- 29
- 55
- 82
- 64
- 43
- 69
- 89
- 89
- 62
- 66
- 56
- 65
- 42
- 70
- 77
- 117
- 120
- 39
- 38
- 81
- 64
- 65



2017 Soil Sampling

Zn (ppm)

- 0-50
- 50-100
- 100-150
- >150

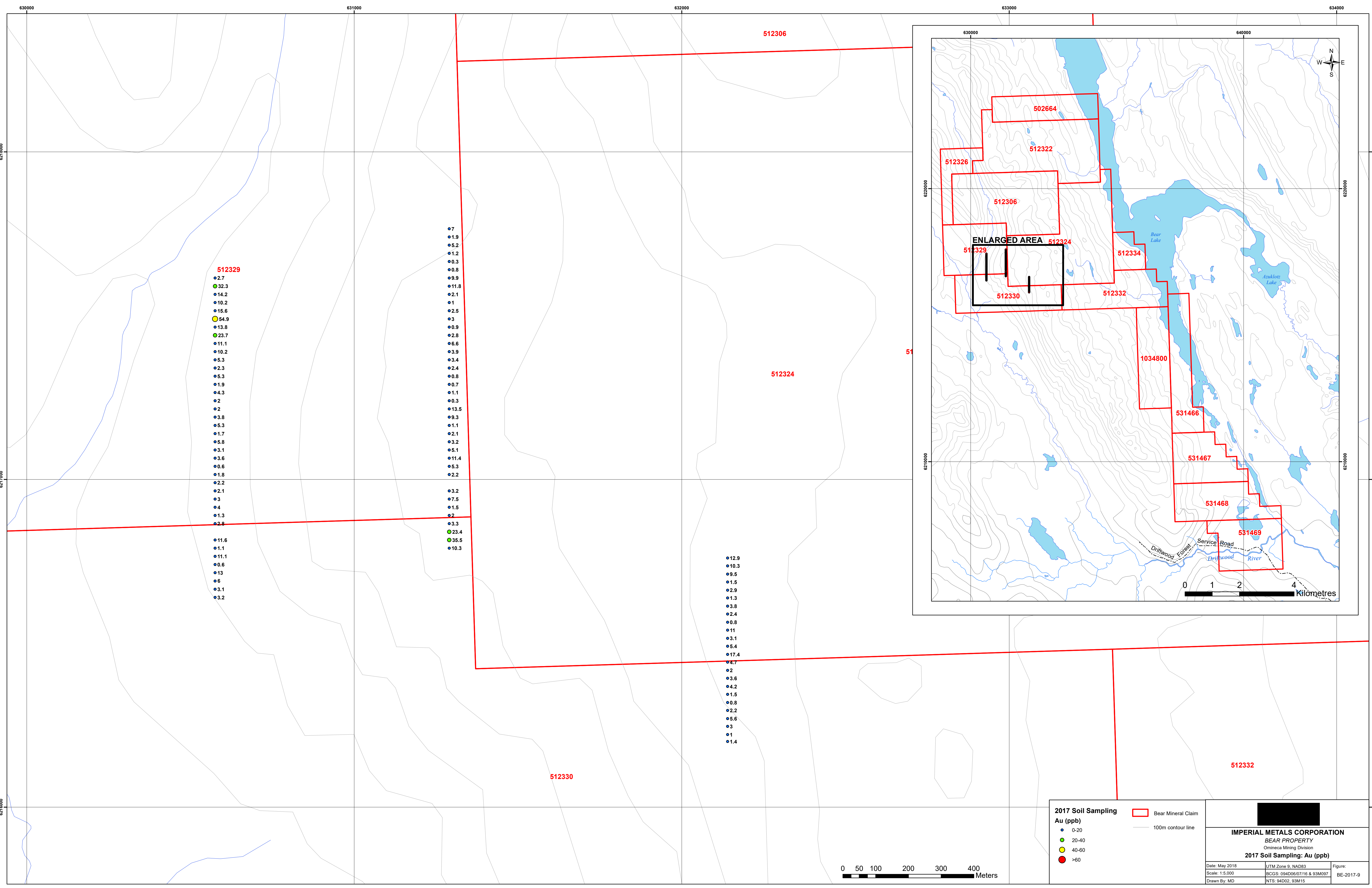
— Bear Mineral Claim

— 100m contour line

IMPERIAL METALS CORPORATION
BEAR PROPERTY
 Omineca Mining Division

2017 Soil Sampling: Zn (ppm)

Date: May 2018	UTM Zone 9, NAD83	Figure:
Scale: 1:5,000	BCGS: 094D06/0716 & 93M097	BE-2017-8
Drawn By: MD	NTS: 94D02, 93M15	



512329

- 2.7
- 32.3
- 14.2
- 10.2
- 15.6
- 54.9
- 13.8
- 23.7
- 11.1
- 10.2
- 5.3
- 2.3
- 5.3
- 1.9
- 4.3
- 2
- 3.8
- 5.3
- 1.7
- 5.8
- 3.1
- 3.6
- 0.6
- 1.8
- 2.2
- 2.1
- 3
- 4
- 1.3
- 2.8
- 11.6
- 1.1
- 11.1
- 0.6
- 13
- 6
- 3.1
- 3.2

- 7
- 1.9
- 5.2
- 1.2
- 0.3
- 0.8
- 9.9
- 11.8
- 2.1
- 1
- 2.5
- 3
- 0.9
- 2.8
- 6.6
- 3.9
- 5.4
- 2.4
- 0.8
- 0.7
- 1.1
- 0.3
- 13.5
- 9.3
- 1.1
- 2.1
- 3.2
- 5.1
- 11.4
- 5.3
- 2.2
- 3.2
- 7.5
- 1.5
- 2
- 3.3
- 23.4
- 35.5
- 10.3

- 12.9
- 10.3
- 9.5
- 1.5
- 2.9
- 1.3
- 3.8
- 2.4
- 0.8
- 11
- 3.1
- 5.4
- 17.4
- 4.7
- 2
- 3.6
- 4.2
- 1.5
- 0.8
- 2.2
- 5.6
- 3
- 1
- 1.4

512306

512324

512330

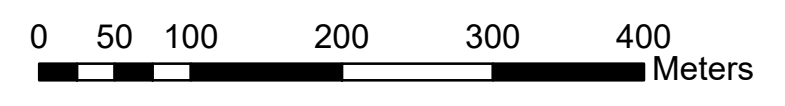
512332

ENLARGED AREA

2017 Soil Sampling
Au (ppb)

- 0-20
- 20-40
- 40-60
- >60

— Bear Mineral Claim
 — 100m contour line



IMPERIAL METALS CORPORATION
BEAR PROPERTY
 Omineca Mining Division
2017 Soil Sampling: Au (ppb)

Date: May 2018	UTM Zone 9, NAD83	Figure:
Scale: 1:5,000	BCGS: 094D06/0716 & 93M097	BE-2017-9
Drawn By: MD	NTS: 94D02, 93M15	