

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: \$20,747.82

AUTHOR(S): Peter Baldazzi, B.Sc.

SIGNATURE(S): 

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

YEAR OF WORK: 2019

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5763651 / November 14, 2019

PROPERTY NAME: PELICAN

CLAIM NAME(S) (on which the work was done): 222171 & 222174

COMMODITIES SOUGHT: Au, Cu, Pb, Zn

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 104B 214

MINING DIVISION: Liard

NTS/BCGS: 104B/10W / 104B056

LATITUDE: 56 ° 34 ' 9.1 " LONGITUDE: 130 ° 52 ' 17.9 " (at centre of work)

**OWNER(S):**

1) Imperial Metals Corporation

2) Chris Graf

78.337% interest

21.663% interest

**MAILING ADDRESS:**

200-580 Hornby Street

6242 Cartwright Street, PO Box 20

Vancouver, BC V6C 3B6

Wardner, BC V0B 2J0

**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):**

Stikina Terrane, Upper Triassic Stuhini Group sediments, banded siltstone, Early Jurassic (195 - 190 Ma) Lehto Plutonic

Suite, granodiorite, quartz monzonite, syenite, feldspar porphyry, Sky Fault System, Bronson Corridor, northwest shears,

quartz-sericite-pyrite alteration, quartz-sulphide veining, pyrite, magnetite, chalcopyrite, sphalerite, galena, gold, silver

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 16727, 16892, 16931, 19002, 19241, 21365, 35670, 36805

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping			
Photo interpretation			
<b>GEOPHYSICAL (line-kilometres)</b>			
<b>Ground</b>			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
Soil			
Silt			
Rock 53 samples / 36 element ICP-ES / MS		222171, 222174	\$17,377.09
Other			
<b>DRILLING (total metres; number of holes, size)</b>			
Core			
Non-core			
<b>RELATED TECHNICAL</b>			
Sampling/assaying 53 / Bureau Veritas Mineral Labs		222171, 222174	\$1,673.53
Petrographic			
Mineralographic			
Metallurgic			
<b>PROSPECTING (scale, area)</b>			
<b>PREPARATORY / PHYSICAL</b>			
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		222171, 222174	\$1,697.20
<b>TOTAL COST:</b>			<b>\$20,747.82</b>

# **GEOCHEMICAL ASSESSMENT REPORT**

**on the**

## **PELICAN PROPERTY**

**Title Numbers 222171 & 222174**

**Liard Mining Division**

**NTS: 104B/10W**

**BCGS: 104B056**

**Latitude: 56° 34' 9.1" N; Longitude 130° 52' 17.9" W**

**UTM (NAD 83 – Zone 9): 6 271 000 N; 385 000 E**

**Owners:**

**Imperial Metals Corporation – 78.337%**

**Chris Graf – 21.663%**

**Operator:**



**Imperial Metals Corporation**  
200 - 580 Hornby Street  
Vancouver, BC Canada V6C 3B6  
[www.imperialmetals.com](http://www.imperialmetals.com)

**Author: Peter Baldazzi, B.Sc.**

**February 6, 2020 / Amended May 13, 2020**

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## **SECTION A: REPORT**

### **INTRODUCTION**

The Pelican Property is located in the Iskut River area, northwestern British Columbia and is owned jointly by Imperial Metals Corporation of Vancouver, BC and Chris Graf of Wardner, BC. The centre of the Property is approximately 18 km southeast of the Snip mine, 6 km southeast of the Inel deposit, and 29 km southwest of the Eskay mine. It covers an area within the Bronson corridor originally targeted for porphyry copper style mineralization during the 1960's – 1970's and subsequently for high-grade gold mineralization adjacent to the regional Sky fault system. Narrow shears hosting weak base metal and gold mineralization hosted in Upper Triassic Stuhini Group sediments have been identified on the Property at the Pelican, SJ, Ger and Sericite East showings.

Systematic exploration of the property by Lonestar Resources began in 1983 with regional mapping, stream sediment and soil sampling surveys completed as part of a larger claim holding in the Pelican area. This program identified several showings consisting of small sulphide shears or quartz-sulphide veins. Subsequent work completed by Western Canadian Mining and Cathedral Gold Corporation built on these discoveries and identified additional showings until on-ground work was suspended following the 1990 field season.

Geological mapping by the BC Geological Survey has highlighted that the Bronson corridor occupies a similar structural and stratigraphic setting to that of the Kerr-Sulphurets-Mitchell-Brucejack porphyry epithermal camp and that the Sky fault system played a key role in localizing Early Jurassic intrusion and mineralization. Recent exploration drilling results obtained by Colorado Resources Ltd and Snip Gold Corporation have also sparked renewed interest in the area. This report documents the program of rock chip sampling and prospecting undertaken by the Company in September 2019.

### **PROPERTY:**

The Pelican Property is owned jointly by Imperial Metals Corporation as to a 78.337% interest and Chris Graf as to a 21.663% interest, the interests being calculated as of September 30, 2019. Imperial Metals Corporation has been acting as operator for the Property and has increased its stake through funding assessment expenditures.

The Property is located 90 km northwest of Stewart, BC (Figure PE-19-1) in the Boundary Ranges and covering a branch of Snippaker Creek, itself a tributary of the Iskut River (Figure PE-19-2). The claim group consists of two mineral tenures, totaling 26 units, covering a gross area of 650.00 ha (Figure PE-19-3).

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 November 14, 2019 as Event #5763651 and assume that the work contained in this report will be accepted for assessment purposes.

### **LOCATION AND ACCESS:**

The Pelican project is located in the Laird Mining Division, 90 km northwest of Stewart, BC and 23 km northeast of the international border in the Iskut River area. Historically access to the Property was by fixed wing aircraft from Terrace (280 km), Smithers (320 km) or Wrangell, Alaska (80 km) to the Bronson, Johnny Mountain or Snippaker gravel airstrips then by helicopter to the claims. The closest of these airstrips is the Snippaker located 6 km east of the claims on Snippaker Creek, although this is no longer maintained. The larger Bronson airstrip lies 18 km to the northwest of the Property.



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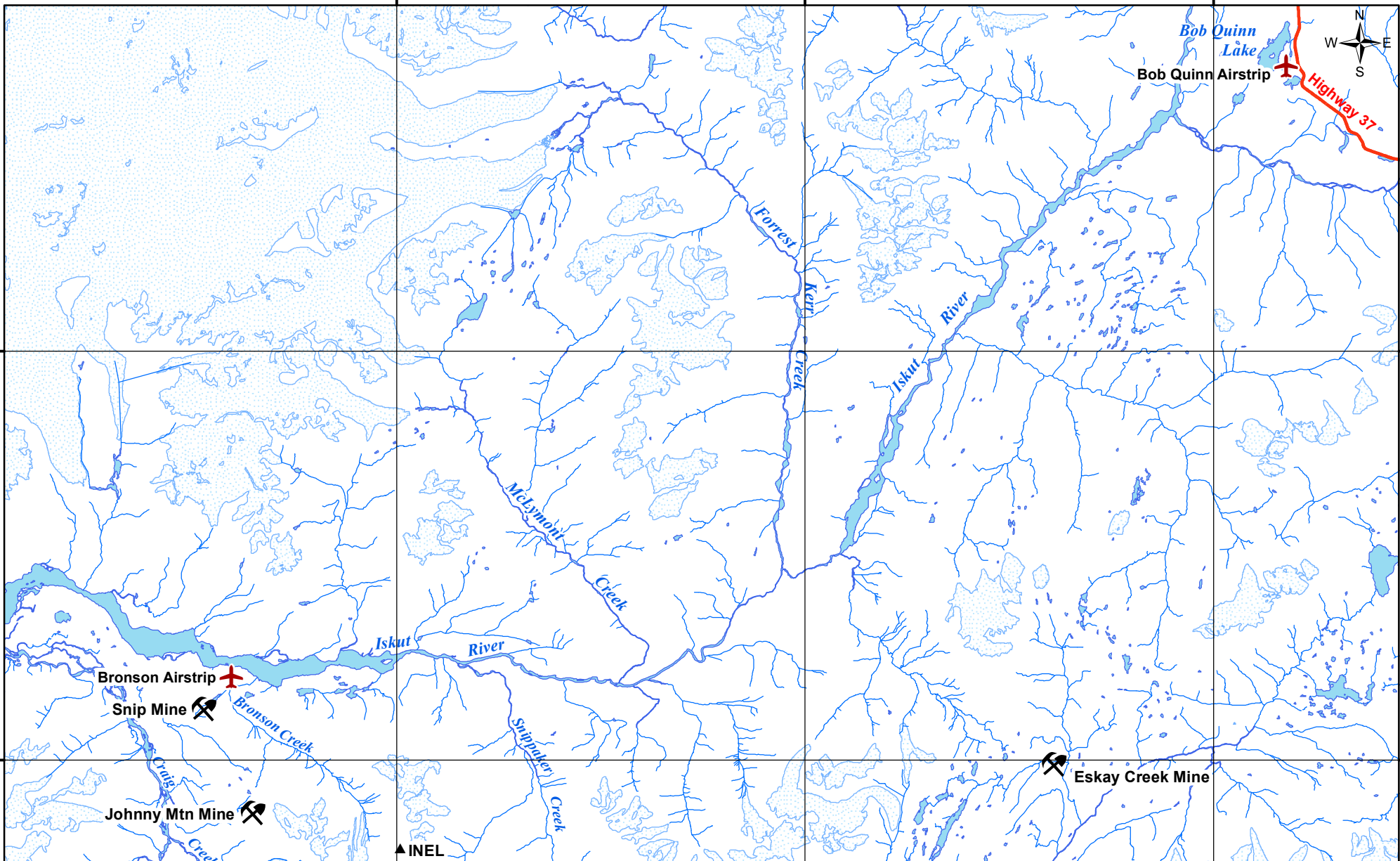
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**PELICAN  
PROPERTY**

-  Pelican Claims
-  Airstrip
-  Developed Prospect
-  Past/Current Producer
-  Highway
-  Ice



**PELICAN PROPERTY**

Liard Mining Division

**General Location Plan**

Date: January 2020	Projection: UTM Zone 9 - NAD83	Fig. PE-19-2
Drawn By: MD	BCGS: 104B.056	
Scale: 1:260,000	NTS: 104B10	



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Snippakker  
Creek

▲ Tami

▲ Sericite East

222171

222174

▲ SJ

▲ Pelican

▲ Ger

- ▲ Minfile Occurrence
- ▭ Pelican Tenure
- ▨ Ice
- 100' contour line



**PELICAN PROPERTY**  
Liard Mining Division  
**Mineral Tenures Plan**

Date: January 2020	Projection: UTM Zone 9 - NAD83	Fig. PE-19-3
Drawn By: MD	BCGS: 104B.056	
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Access to the area has been greatly improved with the development of the Eskay mine and the AltaGas Forrest-Kerr run-of-river hydro project access roads. A 54 km gravel road from Bob Quinn Lake on the Stewart – Cassiar Highway 37 reaches the Iskut River within 14 km of the Pelican Property. Helicopter support remains a requirement for access to the claims given the mountainous terrain and steep glacial valleys present in the area.

The Property is located on NTS map sheet 104B/10W and BCGS map sheet 104B056. The geographic centre of the 2019 work area is 56° 34' 9.1" North Latitude; Longitude 130° 52' 17.9" West longitude while the UTM coordinates are 385 000 E, 6 271 000 N (NAD 83, Zone 09).

### **CLIMATE, TOPOGRAPHY AND VEGETATION:**

The Pelican claims are located within the Boundary Ranges, the northern subdivision of the Coast Mountains. The property covers an area of rugged mountainous terrain incised by steep glacial valleys and receives an average annual precipitation of 3,587 mm with a mean temperature of 9.5 °C in summer and -7.8 °C in winter (UBC, 2015). Much of this precipitation falls as snow covering bedrock exposure and making for a relatively short effective field operating season during the summer months.

Elevation on the Property ranges from a low of 900 m in the valley floor draining into Snippaker Creek in the northeast of the claims, up to 1600 m on the top of Sericite East at the centre of the property. The West Sericite Glacier separates the Ger showing on the far western ridge of the claims from Sericite East and the SJ and Pelican showings further to the east. At the southern edge of the claims the Lake Glacier has retreated slightly since the late 1980's, with the toe edge of the glacier no longer extending onto the Pelican property. Stunted (1-4 m) spruce trees and patchy alder cover the valleys slopes in the lower portion of the Snippaker Creek drainage and much of the area consists of steep scree slopes and bluffs with limited vegetation which is only accessible with mountain climbing gear. Alpine grasses, moss, talus and snow cover limit exposure in higher elevation areas and glacial moraine obscures bedrock outcrop below the Lake Glacier.

### **HISTORY:**

Mineral exploration in the Pelican area, as summarised by D. Gorc (1991), began with the discovery of gold mineralization near Johnny Mountain in 1907. There were several episodes of exploration since then looking for both precious metal and base metal deposits. In the 1960's – 1970's the large gossans present throughout the Bronson corridor and on the Pelican property were explored as porphyry copper targets. During the 1980's exploration for precious metals led to the discovery of the Johnny Mountain, Snip and Brucejack gold deposits.

The Sericite East gossan present on the Pelican property was first explored in 1972 by Great Plains Development. Subsequently Teck Corporation worked the area before Chris Graf – Lonestar Resources, staked the Pelican property as part of the larger group of Gossan claims in 1983. Lonestar completed an extensive regional mapping, stream sediment and soil sampling surveys across the Gossan claims. This program led to the discovery of several showings of sulphide shears or quartz-sulphide veins, including the Pelican showing, on what was at that time a much larger claim group.

Western Canadian Mining signed an option agreement with Mr. Graf in 1985 whereby they could earn a 60% interest in the Gossan claims. They completed geological mapping and soil surveys on portions of the Pelican property.

In August 1988 Cathedral Gold Corporation and two limited partnerships managed by Imperial Metals Corporation signed an agreement with Western Canadian Mining to acquire Western Canadian's 60% interest in the Bronson and Pelican portions of the former Gossan property. Additional prospecting, rock chip sampling, several small soil sampling grids, VLF-electromagnetic and magnetic surveys were completed on the property that year.

An airborne electromagnetic survey was completed by Aerodat in 1989 over the entire Pelican property identifying several conductors and magnetic anomalies for follow up. A field program was carried out by Cathedral Gold on the property in 1990 and a camp established near the centre of the claims by the small lake east of the Pelican showing. This geochemical and geophysical program included soil and rock chip sampling, induced polarization, horizontal loop EM, double dipole IP and magnetic surveys.

No further on-ground work was undertaken until 2015 when Imperial Metals Corporation conducted a limited program of sampling (ARIS #35670). The field program confirmed the presence of multiple narrow northwest trending shears present in the vicinity of the SJ showing but sampling of these shears confirmed only weak gold mineralization comparable with earlier findings (Gorc, 1991). Several narrow pyritic shears were evident in the area and sampling of these returned only weakly anomalous gold values. A further sampling program was conducted in 2017 (ARIS #36805).

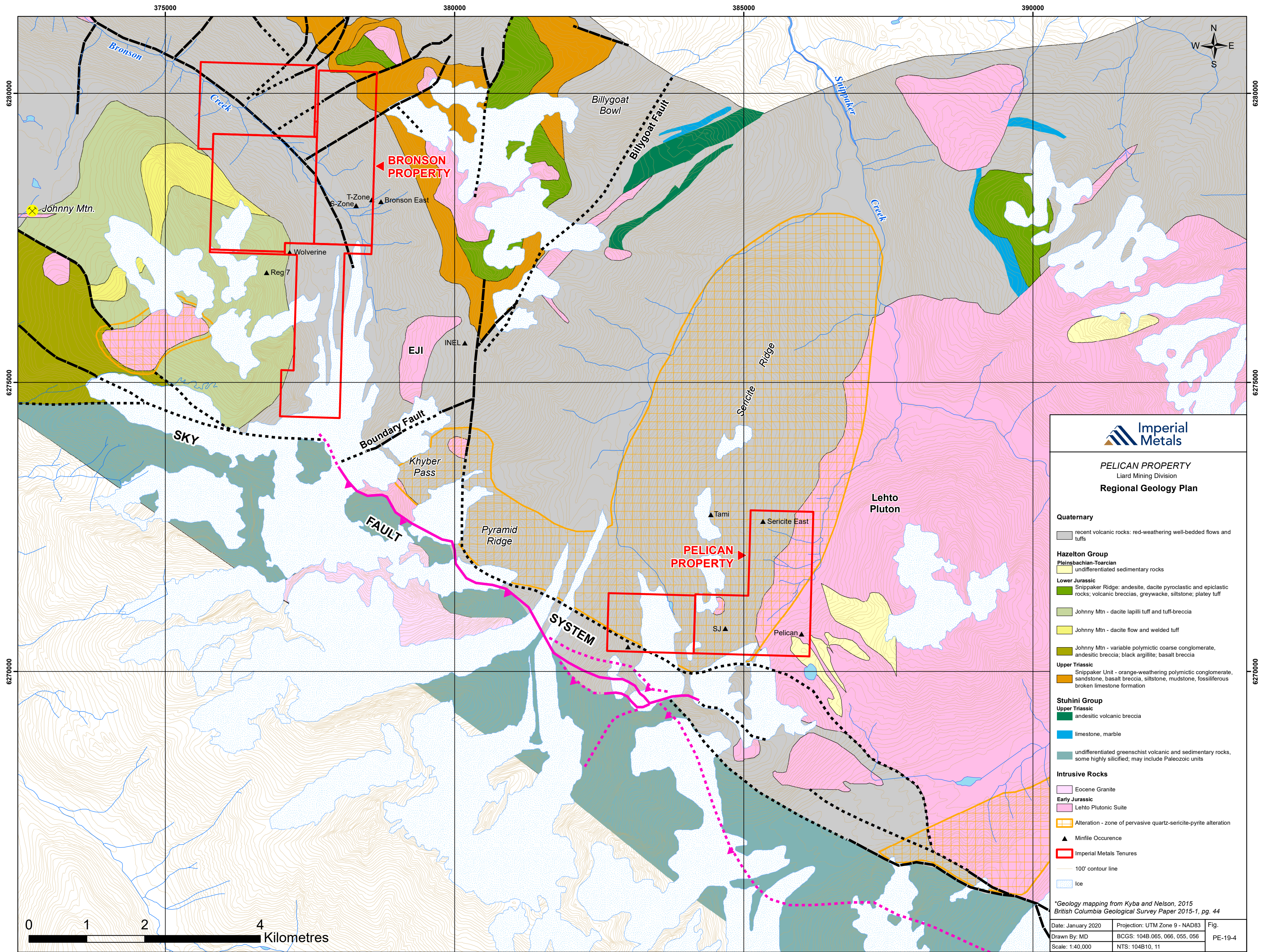
### **REGIONAL GEOLOGY:**

The Bronson corridor is a belt of mineralization located in the northwest of the Stikina terrane (Figure PE-19-4). The area is underlain by rocks of the Upper Triassic –Lower Jurassic Stuhini and Hazelton Groups and intruded by a series of Early Jurassic (195-190 Ma) plutons, stocks and dikes of the Lehto plutonic suite (Kyba & Nelson, 2015). The stratified rocks consist of submarine to sub-aerial fragmental volcanics interlayered with a sequence of argillite, banded siltstone, greywacke, conglomerate and minor limestone. Regionally the sequence has been metamorphosed to greenschist facies and is strongly deformed. The area has a general northwest structural trend which is broken by a series of north to northeast fault structures. Numerous large quartz-sericite-pyrite (QSP) alteration zones and precious metals veins and stockworks are present within the corridor and are spatially associated with the intrusive suite.

The 20 kilometre-long Sky fault system is set of syn-mineral normal faults and reactivated post-mineral reverse faults which bounds the Bronson corridor to the southwest. This fault system played a key role in localizing Early Jurassic intrusion and mineralization along the trend, with zones of highly QSP-altered rocks adjacent to it along the length of the corridor. Cretaceous thrust reactivation was facilitated by the mechanically weak, highly altered clay-sericite-rich rocks (Kyba & Nelson, 2015).

Very coarse, immature lower Hazelton Group conglomerates near the Sky fault zone south of Johnny Mountain are indicative of steep local slopes and clast contributions from a variety of nearby sources. Previously brecciated hypabyssal intrusive clasts in one of the deposits suggests deposition proximal to a penecontemporaneous fault (Kyba & Nelson, 2015).

The regional geology is illustrated on Figure PE-19-4.

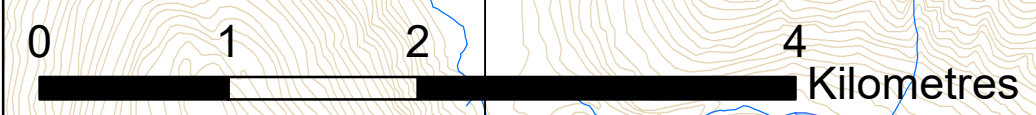


**PELICAN PROPERTY**  
 Liard Mining Division  
**Regional Geology Plan**

- Quaternary**
- recent volcanic rocks: red-weathering well-bedded flows and tuffs
- Hazleton Group**
- Plainsbachian-Toarcian**
- undifferentiated sedimentary rocks
- Lower Jurassic**
- Snippaker Ridge: andesite, dacite pyroclastic and epiclastic rocks; volcanic breccias, greywacke, siltstone; platy tuff
  - Johnny Mtn - dacite lapilli tuff and tuff-breccia
  - Johnny Mtn - dacite flow and welded tuff
  - Johnny Mtn - variable polymictic coarse conglomerate, andesitic breccia; black argillite; basalt breccia
- Upper Triassic**
- Snippaker Unit - orange-weathering polymictic conglomerate, sandstone, basalt breccia, siltstone, mudstone, fossiliferous broken limestone formation
- Stuhini Group**
- Upper Triassic**
- andesitic volcanic breccia
  - limestone, marble
  - undifferentiated greenschist volcanic and sedimentary rocks, some highly silicified; may include Paleozoic units
- Intrusive Rocks**
- Eocene Granite
  - Early Jurassic
  - Lehto Plutonic Suite
  - Alteration - zone of pervasive quartz-sericite-pyrite alteration
  - Minfile Occurrence
  - Imperial Metals Tenures
  - 100' contour line
  - Ice

*\*Geology mapping from Kyba and Nelson, 2015  
 British Columbia Geological Survey Paper 2015-1, pg. 44*

Date: January 2020	Projection: UTM Zone 9 - NAD83	Fig.
Drawn By: MD	BCGS: 104B.065, 066, 055, 056	PE-19-4
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## **PROPERTY GEOLOGY:**

The Pelican property is underlain by volcanic and sedimentary rocks of the Upper Triassic Stuhini Group intruded by several phases of the Early Jurassic Lehto plutonic suite. Banded siltstones of the Stuhini Group are exposed at higher elevations across the property and the entire area appears to be underlain and intruded by Lehto Suite granodiorite, quartz monzonite, syenite and feldspar porphyry stocks and dikes (Oliver, 2015). Distinctive orthoclase porphyry dikes with large phenocrysts (1 – 3 cm) are present as well as narrow alkali basalt and diorite dikes. Alteration of the volcano-sedimentary sequence consists of variable silicification and sericite alteration with disseminated pyrite occurring throughout the sequence and increased in areas of more intense alteration. The alteration, disseminated pyrite and also narrow vein mineralization on the property is thought to be related to the underlying Early Jurassic intrusives.

The SJ Zone was identified by Western Canadian in 1987 and soil surveying produced a 400 m x 400 m zone of anomalous gold in soil values above 50 ppb with a peak value of 650 ppb. Subsequent sampling by Cathedral Gold in 1990 to further delineate the gold anomalism identified a 5 m wide northwest trending shear and dipping moderately to the southwest within quartz-sericite-pyrite altered banded siltstone. Talus fines returned up to 3 g/t Au and the narrow shear was thought to be the source of the gold mineralization (Gorc, 1991).

A soil survey in 1987 by Western Canadian at the Sericite East showing outlined an area of gold in soil anomalism associated with strongly sericite and silica altered felsic volcanoclastics and laminated siltstones. Mafic and felsic dikes and quartz veining crosscut all rock types in the area. One sample of intensely altered felsic volcanics, described as sericite-chlorite-schist with disseminated pyrite and chalcocopyrite assayed 0.45 g/t Au, 9.9 g/t Ag and 0.83% Cu (Peterson & Butterworth, 1987). The 1989 airborne electromagnetic survey completed by Aerodat identified coincident conductors in the vicinity of the showing and a brief follow up by Cathedral Gold produced a sample of QSP-altered rock assaying 630 ppb Au (Minfile 104B 318).

During 1988 Cathedral Gold completed rock chip sampling, established a small soil sampling grid and completed VLF-electromagnetic and magnetometer surveys at the Pelican showing. Samples of mineralized float material below the Pelican cliff returned up to 2895 ppb Au and the VLF-electromagnetic survey indicated conductors above this float. The following year Aerodat identified airborne electromagnetic conductors coincident with the showing and samples taken in 1990 returned highs of 1.8 g/t Au, 0.42 % Cu, 2.3 % Zn and 30.8 g/t Ag (Gorc, 1991). The Pelican showing consists on magnetite-rich vein mineralization with minor sphalerite hosted in pyritic siltstones exposed in the steep cliffs. Randomly oriented narrow discontinuous quartz-sulphide veining is also present and alteration consists of chlorite calcite with minor epidote, diopside, quartz and pyrite (Minfile 104B 214).

At the far western side of the property, the Ger showing occurs within strongly silicified, pyritic greywacke underlain and intruded by the Lehto Suite intrusives. A narrow 5 – 15 cm wide limonitic quartz vein with 5 – 10 % pyrite mineralization strikes variably north-south and dips moderately to the west. Sampling of this vein in 1990 by Jazzman Resources returned assay values up to 12.21 g/t Au, 12.0 g/t Ag and 131 ppm Cu (Minfile 104B 555).

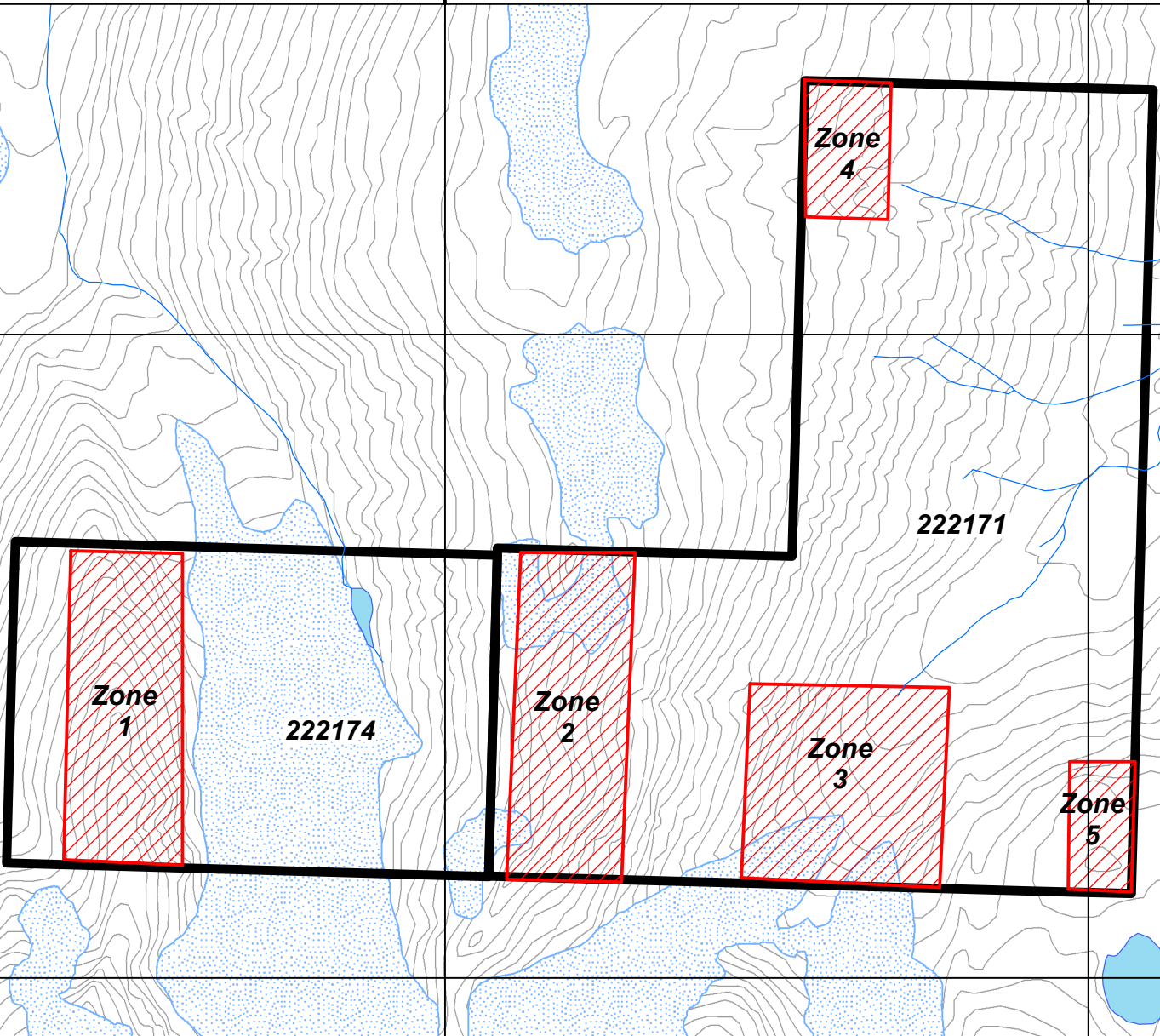
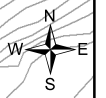
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Zone 1

Zone 2

Zone 3

Zone 5

Zone 4

-  2019 Work Zones
-  Pelican Tenure
-  Ice
-  100' contour line



**PELICAN PROPERTY**  
 Liard Mining Division  
**2019 Work Zones**

Date: January 2020	Projection: UTM Zone 9 - NAD83	Fig. PE-19-5
Drawn By: MD	BCGS: 104B.056	
Scale: 1:20,000	NTS: 104B10	



## **2019 GEOCHEMICAL SAMPLING PROGRAM:**

The 2019 Pelican field program was completed in early fall, on September 12<sup>th</sup>, 13<sup>th</sup> and again on September 16<sup>th</sup>, prior to the winter snowfall. A three-man crew was mobilized to Crystal Lake Mining's Eskay camp on the Iskut River where an A-star B2 helicopter was utilized to access the field area. Accessing the property took place on days with favorable weather conditions. Skies were partly-cloudy to cloudy with intermittent light rain. Temperatures were relatively cool.

The primary goal of the exploration program was to investigate a magnetic anomaly on the property as well as Au soil anomalies from a survey carried out in 1987 by Western Canadian Mining. To investigate the anomalies work was focused on 5 zones and consisted of prospecting and rock sampling (see figure PE-19-5).

The crew performed ridgeline rock sampling on two North-South trending ridges (Zone 1 and Zone 2). In addition to ridgeline sampling, one North-South trending valley was also the subject of rock sampling (Zone 3). One of the North-South ridgelines is located in the southwest quadrant of the claim, starting near the Ger showing and trending north (Zone 1), while the second ridgeline is located in the southern portion of the claim, starting approximately 450m south of the SJ showing and trends north for approximately 1km (Zone 2). The North-South valley that was sampled is located approximately 775m to the east of the SJ showing (Zone 3).

Prospecting and rock sampling near two known mineral showings, Sericite East and Pelican, was also carried out to try and expand on known mineralization. Sericite East is located in the northwest quadrant of the claim (Zone 4) and Pelican is located in the Southeast quadrant of the claim (Zone 5).

The 2019 work areas are shown on Figure PE-19-5.

### **Methods**

A total of 53 outcrop and float rock samples were collected from five different zones of interest on the Pelican Property. The three-man crew collected 25 rock samples from two north-south trending ridges (zones 1 and 2) in the southern end of the Pelican claims, 12 outcrop and float samples along a north-south trending traverse (zone 3) at lower elevations within the valley, and 16 rock samples from Sericite East showing and Pelican showing (zones 4 and 5). Rock samples were primarily collected from zones featuring quartz-sericite-pyrite (QSP) alteration, phyllic alteration, visible sulphide mineralization and in zones of intense shearing. Due to the steep topography and wet conditions, caution was administered when accessing outcrop.

All samples were submitted to Bureau Veritas Mineral Laboratories in Vancouver for trace element geochemical analysis and the Certificate of Analysis is appended in Section E. The results for Au, Cu, Pb and Zn are plotted on Figures PE-19-7 to PE-19-10 respectively.

### **Data**

#### *Ridgeline North of Ger*

Ridgeline rock sampling on the southwestern ridge (Zone 1) of the Pelican claim cut across the historic Ger showing. No sample was collected from the Ger showing vein. But anomalous high grade gold mineralization with moderate Ag and Zn values were indicated by rock samples. Geochemical analysis reports Au values ranging from 6.2 to 2352.5 ppb, Zn values ranging from 2 to 285 ppm, Ag values ranging from 0.1 to 15.7 ppm. Anomalously high Au outcrop samples were found on each end of the traverse that reported Au values of 0.882g/t Au in the South and 2.353g/t Au in the North. Also in the southern and central section of the

traverse were high Ag values of 15.7g/t Ag and 13.8g/t Ag. The western ridgeline displayed very low mineralization of Cu with an average of 0.0012% Cu with the highest value being 0.0054% Cu.

#### *Ridgeline Southwest of SJ*

Ridgeline rock sampling southwest of SJ was successful at determining a new zone of anomalous high grade Au mineralization and weak to strong Ag, Zn and Cu anomalies in outcrop southwest of the SJ showing (Zone 2). Geochemical analysis from the ridgeline rock sampling reports Au values ranging from 2.1 to 7256.3 ppb, Zn values ranging from 2 to 285 ppm, Ag values ranging from 0.05 to 15.7 ppm, and Cu values ranging from 3 to 2247.2ppm. The highest values of Au and Zn from 2019 field program are located on the North-South ridge in the southwest corner of the Gossan 6 claim approximately 500m southwest from the SJ showing (Zone 2). Also reported in Zone 2 were 3 outcrop samples of over 100ppb Au and one sample (sample 36532) at 7.26g/t Au.

#### *Valley East of SJ*

Sampling lower in elevation along the North-South valley 775m east of the SJ showing (Zone 3) was successful at determining that moderate mineralization of Zn is present within the rock. The valley also reported single anomalous Au float sample. Geochemical analysis reports Au ranging from 2.5 to 2512.3ppb, Cu values ranging from 2.3 to 1577.2ppm and Zn values ranging 16 to 185 ppm. In the valley a single float sample reported 2.5g/t Au, 1.7g/t Ag and 1.58%Cu (Zone 3).

#### *Sericite East and Pelican*

Samples collected from Sericite East (Zone 4) and Pelican (Zone 5) returned low concentrations for all precious and base metals but had greater concentrations of Zn and Pb relative to the rest of the Pelican sampling program. Geochemical analysis of these samples indicates that Zn ranges from 8 to 246.0 ppm and Pb ranges from 5.6 to 282.4 ppm near both known showings.

### **DISCUSSION:**

Exploration on the claim has been intermittent since 1972, with the majority of the work being completed in 1988-1989 and in 1990. The Pelican claim has had extensive soil geochemistry, rock sampling and mapping carried out over the majority of the property. The past work has produced three known showings, Sericite East in the North, Pelican in the South-East and SJ in the South.

Claims adjacent to the Pelican property have also had significant exploration. Soil geochemistry, rock sampling, mapping, drilling and modern air-borne geophysics have been successful at delineating targets with similar mineralization and structure to those found on Pelican. The most recent airborne magnetic survey carried out by E. Walcott & Associates Limited in 2014 on behalf of Colorado Resources carries over onto the Pelican claim. Similar magnetic anomalies from the 2014 airborne magnetic survey appear both in the target Zone of the adjacent property (Tami showing) as well as through Sericite East and continuing south further into the Pelican claim. This would suggest that similar mineralization and structures could continue south from Sericite East. Although historic soil data does not indicate strong mineralization south of Sericite East there are many factors that could mask mineralization.

Exploration on the Pelican claim has implemented many different methods and the majority of the property has been traversed and sampled. But when using data and models from surrounding claims in conjunction with Pelican data there are new targets for further investigation.

## **CONCLUSIONS:**

Rock samples from the ridgelines in the southern end of the claim that display quartz-sericite-pyrite alteration exhibit anomalous Au values with a high of 7.26g/t Au. The significantly elevated Au found on the North-South ridge displays similar alteration and grade to the earlier discovered SJ showing located approximately 400m to the northeast. The presence of similar alteration and mineralization could suggest a continuous Au anomaly connecting the two outcrops.

Data compilation from Pelican and adjacent properties suggests new exploration potential and expansion for the South of Sericite East. Colorado Resources 2017 drill data from the Tami showing confirms mineralization to at least shallow depths. Drilling also shows mineralization is open to the east toward the Pelican Claim. Support for mineralization continuing from Tami to the East is provided by airborne-magnetic surveying that shows similar magnetic anomalies targeted at Tami continuing East to the Sericite East showing and further south into the Pelican claim.

## **RECOMMENDATIONS:**

Rock sampling was unable to identify any continuous Au anomalies in the outcrop. The most intriguing Au values occur at the southern-end of the claim (7.26g/t Au). Future work on the Pelican property should focus on determining whether or not anomalous Au can be restricted to specific lithology, alteration, and/or structure. Depending on the scale of project approved, the work recommended would be a grid or series of chip samples over zones of anomalous Au values. The main focus from grid sampling would be attempting to connect high Au values from the ridgeline 400m South-West of the SJ showing.

Next, modern geophysical techniques such as ground magnetic surveys or airborne-magnetic surveys would be useful in defining and expanding magnetic anomalies on the property. The focus of magnetic surveying would be the area surrounding Sericite East. A North-South oriented grid starting at Sericite East extending to the South would be the most effective survey to expand the known magnetic anomalies from adjacent properties as well as at Sericite East.

The best method at testing the continuation of elevated mineralization on all targets on the Pelican claim would be by analyzing whole-rock samples collected from drilling or trenching. Although these exploration methods are more expensive, they can provide quantitative results that will determine the extent of Au occurrences and allow for a better overall understanding of the geology.

**Respectfully submitted,**



**Peter Baldazzi, B.Sc.**



**STATEMENT OF QUALIFICATIONS:**

**For: Peter Baldazzi of 1824 Salisbury Ave, Port Coquitlam, British Columbia V3B 1X7**

I am an 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: 665.

I graduated from Simon Fraser University, British Columbia, Canada, with a Bachelor of Science Degree in Earth Science in 2019.

I am a registered member in good standing as a Geoscientist in Training with Engineers and Geosciences of British Columbia (Member ID # 218981)

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.



**Peter Baldazzi, B.Sc.**

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**SECTION B: PROPERTY**

**SCHEDULE OF MINERAL TENURES:**

The “good to dates” shown are based on the Statement of Exploration and Development Work registered on November 14, 2019 as Event #5763651 and assume that the work contained in this report will be accepted for assessment purposes.

<b>BRONSON-PELICAN PROPERTY: MINERAL TENURES</b>						<b>Date:</b>	<b>Feb 06 2020</b>
<b>OWNER:</b>	<b>Imperial Metals Corporation</b>	<b>78.337%</b>	<b>(Sep 30 2019)</b>	<b>Client No.</b>	<b>144344</b>	<b>Tenures:</b>	<b>8</b>
	<b>Chris Graf</b>	<b>21.663%</b>	<b>(Sep 30 2019)</b>	<b>Client No.</b>	<b>110139</b>	<b>Cells/Units:</b>	<b>102</b>
<b>ROYALTY:</b>	<b>Western Canadian Mining Corporation</b>	<b>5% NPI</b>				<b>Area (ha):</b>	<b>2,550.00</b>
<b>MINING DIVISION: Liard</b>		<b>LAND DISTRICT: Cassiar</b>			<b>LAND TITLE DISTRICT: Prince Rupert</b>		
<b>LOCATION:</b>	<b>Bronson</b>	100 km NW of Stewart BC					
<b>MAP NO.</b>	<b>NTS:</b>	104B/10W, 11E	<b>GEOGRAPHIC COORDINATES:</b>		56° 37.5' N;	131° 00.0' W	
	<b>BCGS:</b>	104B065, 066	<b>UTM COORDINATES (NAD 83, ZONE 09):</b>		6 277 433 N	377 295 E	
<b>LOCATION:</b>	<b>Pelican</b>	90 km NW of Stewart BC					
<b>MAP NO.</b>	<b>NTS:</b>	104B/10W	<b>GEOGRAPHIC COORDINATES:</b>		56° 34.4' N;	130° 52.5' W	
	<b>BCGS:</b>	104B056	<b>UTM COORDINATES (NAD 83, ZONE 09):</b>		6 271 429 N	384 804 E	

<b>MAP REFERENCE:</b>	
1:250 000	104B
1:50 000	104B/10; 104B/11
1:20 000	104B056; 104B065; 104B066

<b>TENURE RECORDS:</b>										
<b>Tenure No.</b>	<b>Tenure Type</b>	<b>Claim Name</b>	<b>Map No.</b>	<b>Record Date</b>	<b>Good To Date</b>	<b>Work Year</b>	<b>Cells</b>	<b>Area (ha)</b>	<b>Work Factor</b>	<b>Work**</b>
<b>Bronson:</b>										
222179	Mineral	Gossan 14	104B066	1982/aug/24	2021/jan/31	9	18	450.00	\$20.00	\$9,000.00
222180	Mineral	Gossan 15	104B066	1982/aug/24	2021/jan/31	9	12	300.00	\$20.00	\$6,000.00
222181	Mineral	Gossan 16	104B065	1982/aug/24	2021/jan/31	9	10	250.00	\$20.00	\$5,000.00
222182	Mineral	Gossan 17	104B065, 066	1982/aug/24	2021/jan/31	9	20	500.00	\$20.00	\$10,000.00
222312	Mineral	Gossan 23	104B065, 066	1983/jun/30	2021/jan/31	9	12	300.00	\$20.00	\$6,000.00
222783	Mineral	Gossan 30	104B066	1987/aug/14	2021/jan/31	9	4	100.00	\$20.00	\$2,000.00
Subtotal:	6						76	1,900.00		\$38,000.00
<b>Pelican:</b>										
222171	Mineral	Gossan 6	104B056	1982/aug/24	2022/apr/01	10	20	500.00	\$20.00	\$10,000.00
222174	Mineral	Gossan 9	104B056	1982/aug/24	2022/apr/01	10	6	150.00	\$20.00	\$3,000.00
Subtotal:	2						26	650.00		\$13,000.00
<b>TOTAL</b>	<b>8</b>						<b>102</b>	<b>2,550.00</b>		<b>\$51,000.00</b>

\*\* 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**

**PELICAN 2019 GEOCHEMICAL SAMPLING AND PROSPECTING PROGRAM**

**IMPERIAL METALS CORPORATION  
 PELICAN PROJECT**

**Statement of Expenditures: 2019 Assessment Program**

**Feb 06 2020**

Item / Contractor	Work	Period	Quantity	Unit	Rate	Amount
<b>Personnel:</b>						
Jim Miller-Tait, P.Geo.	VP, Exploration / general supervision	Sep 11-20, 2019	1	days	\$600.00	\$600.00
Gary Roste, P.Geo.	Project Geologist	Sep 11-13, 17, 20, 2019	5	days	\$500.00	\$2,500.00
Peter Baldazzi	Geologist	Sep 11-13, 20, 2019	4	days	\$350.00	\$1,400.00
Derek Saxton	Geologist	Sep 11-13, 20, 2019	4	days	\$350.00	\$1,400.00
				days	\$0.00	\$0.00
Subtotal						\$5,900.00
<b>Accommodation &amp; Meals:</b>						
HEG Exploration Services	Crew Accommodation and Meals at Crystal Lake Mining camp	Sep 12, 13,18, 2019	7	person days	\$217.80	\$1,524.60
Motel / Hotel	Crew Accommodation	Sep 10 & 18, 2019		person days	\$0.00	\$125.89
Meals - Travel Days	Crew Travel	Sep 9-20, 2019		person days	\$0.00	\$135.43
Subtotal						\$1,785.92
<b>Transportation (Air):</b>						
Interior Helicopters Ltd. (AStar-SD2)	Helicopter transport from camp to property		5.1	hours	\$1,764.39	\$8,998.40
Corporate Travel - Crew Flights	Commercial air transport:					\$0.00
Subtotal						\$8,998.40
<b>Transportation (Ground)</b>						
The Driving Force Inc.	Rental: Chevrolet Silverado 3500HD Crew Cab	Sep 9-21, 2019	4	days	\$72.00	\$288.00
Peter Baldazzi	Fuel for Chevrolet Silverado	Sep 9-21, 2019				\$120.12
Subtotal						\$408.12
<b>Assaying:</b>						
Bureau Veritas Mineral Laboratories	Rock Samples: AQ201 analytical code and AQ374 for overlimits		53	samples	\$31.58	\$1,673.53
Subtotal			53			\$1,673.53
<b>Freight:</b>						
	Sample Shipment: _____ to Vancouver			skid		\$0.00
Subtotal						\$0.00
<b>Equipment / Field Supplies:</b>						
Magnetometer			0	days	\$100.00	\$0.00
IRL Supplies, Prince George	Sampling, engineering and safety supplies					\$195.71
BK Two-Way Radio	Satellite Phone rental					\$88.95
Subtotal						\$284.65
<b>Drafting:</b>						
Melissa Darney	GIS work: drafting of report maps		2	days	\$390.00	\$780.00

Subtotal						\$780.00
<b>Report Preparation:</b>						
Peter Baldazzi, B.Sc.	Data compilation, report preparation		2	days	\$350.00	\$700.00
Erik Andersen	Data preparation, report editing		4	hours	\$54.30	\$217.20
Subtotal						\$917.20
<b>Total Assessment Expenditure</b>	<b>Work Performed on 222171 &amp; 222174</b>					<b>\$20,747.82</b>
					<b>Maximum PAC Factor</b>	<b>1.4285</b>
					<b>Maximum Assessment</b>	<b>\$29,638.26</b>



**SECTION D: SAMPLE LOCATIONS**

**SAMPLE LOCATIONS AND DESCRIPTIONS**

Coordinate locations recorded in UTM NAD83 Zone 09.

IMPERIAL METALS CORPORATION

PELICAN PROPERTY: 2019 ROCK SAMPLE LOCATIONS AND DESCRIPTIONS

PROJECT	SAMPLE TYPE	SAMPLE ID	WORK ZONE	EASTING NAD83 09	NORTHING NAD83 09	ELEVATION	SAMPLER	DATE	Lithology	Alteration	Mineralization	Structure (Strike/dip)	Description
Pelican	Outcrop	36501	4	385132	6272587	1293	GR	12-Sep-19		Qtz-Ser-Py	Py		Rusty red weathered, pervasively altered, disseminated pyrite rock.
Pelican	Outcrop	36502	4	385205	6272572	1281	GR	12-Sep-19		Qtz-Ser-Py	Py		Rusty red weathered, pervasively altered, disseminated pyrite rock.
Pelican	Outcrop	36503	4	385314	6272535	1249	GR	12-Sep-19		Qtz-Ser-Py	Py		Rusty red weathered, pervasively altered, disseminated pyrite rock.
Pelican	Outcrop	36504	5	386218	6270438	1184	GR	12-Sep-19		Qtz-Ser-Py	Py		Rusty red weathered, pervasively altered, disseminated pyrite rock.
Pelican	Outcrop	36505	5	386084	6270365	1198	GR	12-Sep-19		Qtz-Ser-Py	Py		Rusty red weathered, pervasively altered, disseminated pyrite rock.
Pelican	Outcrop	36506	3	385044	6270381	1005	GR	13-Sep-19		Chl	Py		Dark green, medium to fine-grained, pervasively chloritized rock with disseminated pyrite.
Pelican	Float	36507	3	385042	6270380	1004	GR	13-Sep-19		Chl	Py		Pervasively chloritized rock with disseminated pyrite.
Pelican	Float	36508	3	385040	6270380	1003	GR	13-Sep-19		Chl	Py		Pervasively chloritized rock with disseminated pyrite.
Pelican	Float	36509	3	385063	6270393	993	GR	13-Sep-19		Chl	Py		Pervasively chloritized rock with disseminated pyrite.
Pelican	Outcrop	36510	3	385092	6270444	977	GR	13-Sep-19			Py		Dark grey rock with disseminated pyrite.
Pelican	Float	36511	3	385129	6270487	962	GR	13-Sep-19			Py		Oxidized rock with disseminated pyrite.
Pelican	Float	36512	3	385178	6270553	952	GR	13-Sep-19			Py		Oxidized rock with disseminated pyrite.
Pelican	Float	36513	3	385178	6270549	951	GR	13-Sep-19			Py		Oxidized rock with disseminated pyrite.
Pelican	Float	36514	3	385168	6270585	963	GR	13-Sep-19			Py		Oxidized rock with disseminated pyrite.
Pelican	Float	36515	3	385199	6270635	952	GR	13-Sep-19			Py		Oxidized rock with disseminated pyrite.
Pelican	Float	36516	3	385240	6270798	966	GR	13-Sep-19			Py		Oxidized rock with disseminated pyrite.
Pelican	Float	36517	3	385432	6270790	917	GR	13-Sep-19			Py		Oxidized rock with disseminated pyrite.
Pelican	Outcrop	36523	4	385189	6272692	1307	GR	16-Sep-19			Py		Oxidized rock with disseminated pyrite.
Pelican	Outcrop	36524	4	385189	6272694	1307	GR	16-Sep-19			Py		Oxidized rock with disseminated pyrite.
Pelican	Outcrop	36525	4	385180	6272655	1307	GR	16-Sep-19			Py		Oxidized rock with disseminated pyrite.
Pelican	Outcrop	36526	4	385201	6272433	1251	PB	12-Sep-19	Monzonite	Qtz-Ser-Py	Py		White, fine-grained, pervasively sericitized and weakly sheared monzonite with trace Pyrite (<1%) and strong rusty-red weathering. White monzonite is unconformably covered with ferrocrete flow or volcaniclastic flow.
Pelican	Outcrop	36527	4	385265	6272518	1261	PB	12-Sep-19	Monzonite	Qtz-Ser-Py			White, fine to medium-grained, pervasively sericitized, weakly sheared, monzonite. Rock consists of >90%feldspar and minor chlorite. Rusty weathering along shearing planes.
Pelican	Outcrop	36528	5	386047	6270414	1198	PB	12-Sep-19		Qtz-Ser-Chl-Py	Py		Rusty red weathered, pale-yellow to dark-green, pervasively chloritized, disseminated pyrite rock. Rock contains mm-scale quartz veins throughout the rock with various orientations. Pyrite consists of 15% of total rock and is both disseminated and within veinlets
Pelican	Outcrop	36529	5	386055	6270488	1193	PB	12-Sep-19		Chl-Bio	Py		Rusty red weathered, pale-green to dark-green fresh, fine-grained, pervasively chloritized rock, with brassy, fine-grained pyrite (10-15%) disseminated throughout the rock and veinlets. Rock also has mm-scale quartz veins throughout the rock.
Pelican	Outcrop	36530	5	386089	6270492	1185	PB	12-Sep-19	Quartz Veining	Chl-Qtz-Bio	Py-Mal-Azu		Rusty red weathered, pale-green to white, pervasively chloritized quartz veins. Patches of irregularly shaped semi-massive pyrite and quartz are rimming cm-scale white, medium-grained, "bull quartz", quartz veins. Irregular, and patchy, mm-scale zones of malachite and azurite are found within the "bull quartz" veins. Pyrite is present as fine-grained disseminated and fine-grained "powdered texture".
Pelican	Outcrop	36531	2	384241	6270370	1609	PB	13-Sep-19	Disseminated Sulphide	Qtz-Chl-Bio	Py-Cpy		Pale green and white with rusty red weathering, fine-grained, pervasively chloritized and silicified rock. Rock has minor, fine-grained pyrite (2%) and trace chalcopyrite. Sulphide is disseminated.
Pelican	Outcrop	36532	2	384247	6270375	1607	PB	13-Sep-19		Qtz	Py		White with minor grey, fine-grained pervasively altered rock with trace pyrite. Rock is only present over a short 1.2 m interval.
Pelican	Outcrop	36533	2	384259	6270381	1605	PB	13-Sep-19	Sulphide rock with C	Qtz-Ser-Chl	Py		White and pale green with dark red rusty weathering, pervasively altered rock with cm-mm scale veins and 10% disseminated pyrite. Alteration consists of chlorite and sericite.
Pelican	Outcrop	36534	2	384296	6270430	1604	PB	13-Sep-19	Sulphide rock with C	Chl-Qtz	Py-Cpy		Dark green to pale green, fine-grained, quartz veined (mm scale), pervasively chloritized rock. 7% disseminated pyrite with trace ?chalcopyrite? The pyrite is situated along veins and as disseminations.
Pelican	Outcrop	36535	2	384295	6270442	1609	PB	13-Sep-19	Sulphide rock with C	Chl-Qtz	Py-Cpy	055/90	Same description as 36534. Chloritization is following 55 degree azimuth to the north east and is vertical.
Pelican	Outcrop	36536	2	384293	6270458	1610	PB	13-Sep-19	Chlorite altered Rock	Chl-Ep-Qtz	Py-Cpy	Veins: N-S and E-W	Dark green to pale green and white, fine-grained rock with pervasive chlorite and epidote alteration and cm-scale quartz veins. Veins are oriented both N-S and E-W and contain pyrite and potential chalcopyrite.
Pelican	Outcrop	36537	2	384335	6270588	1623	PB	13-Sep-19	Chlorite altered Rock	Chl-Ep-Qtz	Py-Cpy	Veins: N-S and E-W	Same description as 36536

Pelican	Outcrop	36538	2	384355	6270673	1616	PB	13-Sep-19	Strongly altered rock	Qtz-Chl	Py		Entire zone is pervasively veined (stockwork) and is very rusty red. Sample taken is fine to medium grained, chloritized and silicified with as much as 7% pyrite.
Pelican	Outcrop	36539	2	384316	6270844	1616	PB	13-Sep-19	Strongly Chloritized Rock	Qtz-Chl	Py		White and dark green, medium to fine-grained, quartz and chlorite vein cutting through pervasively chloritized rock. Sample taken of mostly vein with a bit of host wall rock. Host rock contains 5% pyrite.
Pelican	Outcrop	36540	2	384446	6271325	1575	PB	13-Sep-19		Chl-Ep-Qtz			Dark green and pale green, pervasively altered chlorite-epidote rock with 2-5cm thick cross cutting quartz vein. Lots of red-rusty staining but no visible sulphide.
Pelican	Outcrop	36541	2	384408	6271268	1590	PB	13-Sep-19	Phyllite	Ser			White, fine-grained phyllite which has been strongly sheared and pervasively sericitized. A lot of red weathering but no visible sulphides.
Pelican	Outcrop	36542	2	384400	6271196	1581	PB	13-Sep-19	Phyllite	Ser			White, fine-grained, phyllite. Same as 36541.
Pelican	Outcrop	36543	2	384401	6271192	1582	PB	13-Sep-19	Phyllite	Ser	Py		Same as 36541 but has 2% finely disseminated pyrite.
Pelican	Outcrop	36551	5	386036	6270418	1208	DS	12-Sep-19		Qtz-Chl	Py		White and green, 30cm thick quartz and chlorite vein with 1-2% disseminated pyrite. Surrounding the vein there are numerous 1-10cm thick quartz and chlorite veins.
Pelican	Outcrop	36552	5	386043	6270386	1209	DS	12-Sep-19		Qtz-Chl	Py		white, 3-5 cm thick, quartz vein with variable amounts of chlorite and minor pyrite. Surrounding the veins are numerous cm-scale veins of similar character. The veins are oriented approximately south and are sub vertical (183/85).
Pelican	Outcrop	36553	5	386291	6270271	1193	DS	12-Sep-19	Silicified Rock	Qtz	Py	Veining: E-W	White, 10cm thick quartz vein with a slightly vuggy character. The vein is oriented approximately east-west and is subvertical. The surrounding rock is intensely weathered and oxidized, contains 2-5% pyrite and is moderately to highly silicified.
Pelican	Outcrop	36554	1	383037	6270345	1531	DS	13-Sep-19	Strongly altered rock	Chl-Qtz			Red weathering, green, moderately foliated, highly chloritized rock with 1-2cm thick quartz vein. Vein is oriented roughly E-W and dips at 70 degrees to the north.
Pelican	Outcrop	36555	1	383035	6270367	1528	DS	13-Sep-19	Strongly altered rock				Red weathering, green, fine to medium-grained, pervasively altered rock with 1-2cm thick quartz vein. Alteration consists of sericite and chlorite.
Pelican	Outcrop	36556	1	383002	6270352	1536	DS	13-Sep-19		Qtz	Py		Red and green weathered, milky white, 40-50 cm thick bull quartz vein with rare pyrite.
Pelican	Outcrop	36557	1	383002	6270383	1536	DS	13-Sep-19	Strongly altered rock	Ser-Chl	Py		Red weathered, green and yellow, fine-grained, pervasively oxidized and altered rock with 3-5% euhedral pyrite. Alteration consists of sericite and chlorite.
Pelican	Outcrop	36558	1	383000	6270438	1526	DS	13-Sep-19		Chl	Py		Red weathered, white and green, fine to medium-grained igneous rock with about 5% disseminated pyrite. Rock contains chloritized hornblende phenocrysts.
Pelican	Outcrop	36559	1	382991	6270495	1526	DS	13-Sep-19	Strongly altered rock	Chl	Py-Cpy		Reddish orange weathered, green, fine-grained, pervasively chloritized rock with 5-10% disseminated pyrite and potential ?chalcopyrite? There are a few euhedral crystals with an iridescent tarnish.
Pelican	Outcrop	36560	1	383006	6270548	1525	DS	13-Sep-19	Strongly altered rock	Ep-Chl-Ser			Red weathered, green and yellow, highly altered rock. Alteration consists of mostly epidote, chlorite and sericite.
Pelican	Outcrop	36561	1	382996	6270574	1522	DS	13-Sep-19			Py		Red weathered, tan, fine-grained rock with 3-5% disseminated pyrite.
Pelican	Outcrop	36562	1	382986	6270639	1505	DS	13-Sep-19		Chl	Py		Red weathered, green and white, fine-grained rock with 10cm bull quartz vein. 3% disseminated pyrite along contact of qtz veins and host rock.
Pelican	Outcrop	36563	1	382979	6270695	1491	DS	13-Sep-19	Strongly altered rock	Chl	Py		Red weathered, green, fine-grained rock with pervasive chlorite alteration and fine-grained pyrite disseminations (1-2%)
Pelican	Outcrop	36564	1	382994	6270770	1479	DS	13-Sep-19		Ep-Qtz	Py		Red weathered, green and white, quartz and epidote rich rock with 1% pyrite.
Pelican	Outcrop	36565	1	382992	6270822	1470	DS	13-Sep-19		Qtz	Py-Cpy?		Red weathered, white, pocketed quartz rich rock with 5-10% euhedral pyrite and potential ?chalcopyrite?. The quartz looks vuggy but is probably due to weathered out pyrite.

## **SECTION E: ANALYTICAL REPORTS**

1. Analyses carried out by Bureau Veritas Mineral Laboratories Ltd. of Vancouver, B.C.

<b>File Number</b>	<b>Date of Certificate</b>	<b>No. of Samples</b>	<b>Sample Type</b>	<b>Analytical Procedure</b>
<b>Mineral Analysis:</b>				
VAN19002747.1	Oct 08 2019	104	Rock	AQ201 / AQ374
<b>Total</b>		<b>104</b>		

2. Statement of Analytical Procedures: 2 data sheets
- Bureau Veritas AQ300, AQ200; Multi-Element (36) Assay by ICP-ES/MS; Aqua Regia Digestion
  - Bureau Veritas AQ370, AQ270; Ore Grade Analysis by ICP-ES/MS; Aqua Regia Digestion



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

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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: Email Distribution List  
Receiving Lab: Canada-Vancouver  
Received: September 23, 2019  
Report Date: October 08, 2019  
Page: 1 of 5

# CERTIFICATE OF ANALYSIS

VAN19002747.1

## CLIENT JOB INFORMATION

Project: BRONSON  
Shipment ID: BR2019-  
P.O. Number  
Number of Samples: 104

## SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 60 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.

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

CC:

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	104	Crush, split and pulverize 250 g rock to 200 mesh			VAN
AQ201	104	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
AQ374	7	1:1:1 Aqua Regia Digestion ICP-ES Finish	0.4	Completed	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.



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**Project:** BRONSON  
**Report Date:** October 08, 2019

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**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

## VAN19002747.1

Method Analyte Unit MDL	WGHT	AQ201 Mo	AQ201 Cu	AQ201 Pb	AQ201 Zn	AQ201 Ag	AQ201 Ni	AQ201 Co	AQ201 Mn	AQ201 Fe	AQ201 As	AQ201 Au	AQ201 Th	AQ201 Sr	AQ201 Cd	AQ201 Sb	AQ201 Bi	AQ201 V	AQ201 Ca	AQ201 P	
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	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	1	0.01	0.001	
36501	Rock	1.02	11.0	37.7	188.3	21	0.4	17.0	2.2	205	4.45	9.4	40.6	1.0	88	<0.1	1.0	0.6	17	0.49	0.046
36502	Rock	0.87	0.2	8.0	99.4	26	0.4	0.4	0.1	24	0.30	2.1	1.4	2.8	53	0.3	<0.1	1.2	1	0.02	0.036
36503	Rock	0.72	1.9	18.9	10.5	90	0.3	0.8	0.5	656	1.68	0.9	8.1	2.4	115	<0.1	0.2	<0.1	24	0.29	0.059
36504	Rock	0.72	14.3	20.6	35.9	107	4.6	33.8	202.3	1312	13.48	57.9	75.3	0.7	7	<0.1	1.7	7.8	38	0.17	0.086
36505	Rock	0.98	0.9	2.7	5.6	60	0.2	2.9	8.9	956	2.99	5.8	6.6	1.0	157	<0.1	0.5	0.5	29	0.92	0.100
36506	Rock	0.94	0.5	18.7	11.3	185	0.7	13.6	13.5	2109	4.02	15.3	21.1	0.9	104	<0.1	0.3	1.2	76	1.81	0.178
36507	Rock	0.86	2.8	5.4	2.2	60	0.2	3.5	6.8	747	3.23	3.0	11.3	1.2	83	<0.1	0.1	0.4	63	0.61	0.166
36508	Rock	1.05	0.7	5.6	5.3	27	0.2	3.5	4.2	191	1.23	1.3	2.5	0.3	35	<0.1	0.2	0.3	33	0.33	0.049
36509	Rock	0.99	2.2	7.2	3.1	97	0.6	9.0	51.0	1025	8.51	0.6	26.1	3.8	59	<0.1	0.1	1.4	24	0.25	0.016
36510	Rock	0.94	1.0	24.6	2.7	108	<0.1	13.7	22.4	2041	5.69	9.3	9.3	0.7	90	<0.1	0.5	0.3	91	0.72	0.142
36511	Rock	1.16	0.8	38.0	3.0	25	0.4	23.0	27.4	502	4.91	2.6	9.2	0.4	231	<0.1	0.8	0.3	48	1.49	0.087
36512	Rock	0.87	1.7	5.2	6.3	75	0.3	15.0	7.5	1087	6.29	3.0	6.5	0.7	222	<0.1	0.8	1.6	66	1.13	0.105
36513	Rock	0.81	1.4	2.3	16.7	31	1.0	11.7	3.4	520	3.05	8.8	32.6	0.9	237	<0.1	1.0	2.8	53	0.99	0.038
36514	Rock	2.40	2.1	1577.2	16.9	68	1.7	39.6	206.6	498	37.68	>10000	2512.3	0.1	2	0.4	53.4	2.5	62	0.04	0.019
36515	Rock	0.93	2.2	11.7	7.4	169	0.3	12.2	16.9	1799	7.80	529.4	19.7	1.7	188	<0.1	0.5	1.4	65	0.27	0.062
36516	Rock	1.12	1.1	9.2	5.2	67	0.2	14.8	12.9	657	2.90	244.9	85.7	1.3	93	<0.1	0.5	1.9	60	0.58	0.120
36517	Rock	0.94	31.3	51.8	28.1	16	1.4	167.1	228.5	95	15.09	147.8	18.4	0.6	111	0.1	0.3	5.2	103	0.62	0.017
36518	Rock	0.79	0.8	3.4	9.9	13	<0.1	0.6	3.1	327	2.28	22.1	5.4	0.8	15	<0.1	0.7	0.1	9	0.10	0.072
36519	Rock	1.48	0.4	8.7	1.8	65	<0.1	2.5	12.9	658	3.11	50.8	3.0	1.8	165	<0.1	0.9	<0.1	92	0.96	0.115
36520	Rock	1.55	1.6	4.1	10.3	9	<0.1	0.3	5.4	69	4.15	19.7	<0.5	1.7	20	<0.1	1.3	<0.1	15	0.25	0.131
36521	Rock	1.77	0.4	39.4	9.5	56	0.4	0.8	4.2	669	1.60	15.6	5.2	1.0	357	0.1	1.2	<0.1	49	1.08	0.086
36522	Rock	1.22	2.7	3.6	10.3	3	<0.1	0.1	1.3	28	1.91	15.5	2.3	1.4	12	<0.1	0.8	0.1	8	<0.01	0.059
36523	Rock	1.81	7.0	116.7	11.2	202	0.6	1.1	2.6	1433	3.72	5.8	204.3	3.3	16	<0.1	0.2	<0.1	38	0.24	0.118
36524	Rock	1.51	6.8	36.8	15.6	157	0.3	0.9	1.9	1063	2.51	6.8	38.1	3.9	25	<0.1	0.1	<0.1	34	0.29	0.149
36525	Rock	1.19	10.8	85.7	19.1	138	0.6	1.0	1.1	1063	3.91	3.8	87.7	5.2	31	<0.1	0.2	0.4	43	0.11	0.123
36526	Rock	0.85	4.0	36.3	119.0	60	2.8	1.4	6.5	126	3.22	4.3	39.4	2.0	91	0.3	4.6	2.4	13	0.03	0.052
36527	Rock	1.77	4.7	48.5	114.6	8	0.8	<0.1	<0.1	17	2.12	7.0	45.6	1.1	159	<0.1	1.5	0.4	14	0.01	0.119
36528	Rock	0.85	1.7	205.4	282.4	128	6.3	8.0	11.7	541	6.16	167.5	179.3	0.6	21	0.4	3.2	5.7	42	0.13	0.041
36529	Rock	2.89	0.5	897.4	11.4	112	1.3	123.8	48.8	2312	8.46	57.6	30.7	2.1	202	0.2	1.2	2.3	102	1.59	0.340
36530	Rock	0.77	0.6	418.7	111.4	224	9.1	2.4	84.4	180	9.60	172.3	197.9	<0.1	17	2.3	1.9	4.0	7	0.22	0.004



Bureau Veritas Commodities Canada Ltd.

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**Client:** Imperial Metals Corporation  
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**Project:** BRONSON  
**Report Date:** October 08, 2019

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# CERTIFICATE OF ANALYSIS

VAN19002747.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ374	AQ374	AQ374
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te	Cu	Pb	Zn
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	0.01	0.1	0.01	0.05	1	0.5	0.2	0.001	0.01	0.01	
36501	Rock	3	14	0.20	61	0.039	1	0.72	0.010	0.13	0.2	0.01	0.9	<0.1	1.89	2	3.6	0.6			
36502	Rock	6	2	<0.01	493	<0.001	<1	0.49	0.055	0.23	<0.1	<0.01	0.1	0.1	<0.05	1	<0.5	<0.2			
36503	Rock	7	3	0.41	1966	0.078	<1	1.02	0.027	0.30	0.6	<0.01	1.4	0.2	0.07	3	<0.5	<0.2			
36504	Rock	1	41	1.35	13	0.056	<1	2.22	0.003	0.08	0.2	0.02	3.1	<0.1	7.78	5	11.3	6.0			
36505	Rock	4	5	0.81	104	0.103	2	1.44	0.041	0.09	0.2	<0.01	2.8	<0.1	0.92	4	0.8	0.4			
36506	Rock	4	9	2.55	96	0.193	1	2.63	0.046	0.18	0.4	<0.01	4.2	<0.1	1.35	6	1.3	1.5			
36507	Rock	5	8	1.71	31	0.148	<1	1.87	0.054	0.08	0.5	<0.01	2.3	<0.1	0.44	5	1.9	0.5			
36508	Rock	2	20	0.34	4	0.127	1	0.40	0.028	<0.01	0.2	<0.01	2.9	<0.1	0.20	2	0.8	<0.2			
36509	Rock	4	2	1.75	6	0.018	<1	1.72	0.038	0.01	0.1	<0.01	0.6	<0.1	7.05	4	2.8	1.6			
36510	Rock	3	9	2.84	79	0.197	1	3.04	0.028	0.10	0.5	<0.01	3.8	<0.1	1.49	7	1.7	0.4			
36511	Rock	10	27	0.73	2	0.178	1	1.47	0.015	<0.01	0.2	<0.01	2.1	<0.1	3.25	4	4.6	0.5			
36512	Rock	3	30	1.31	29	0.171	<1	2.51	0.004	0.09	0.1	<0.01	3.8	<0.1	0.22	7	4.5	0.9			
36513	Rock	4	26	0.63	9	0.211	<1	1.25	0.028	0.02	0.7	0.01	2.1	<0.1	0.96	5	6.1	3.1			
36514	Rock	<1	13	1.02	1	0.013	<1	1.73	0.001	<0.01	<0.1	0.04	3.2	0.1	>10	7	>100	27.2	0.162	<0.01	<0.01
36515	Rock	4	38	3.11	26	0.320	2	2.78	0.034	0.14	0.1	<0.01	2.9	<0.1	2.92	7	7.2	1.5			
36516	Rock	5	41	1.88	95	0.142	2	1.90	0.034	0.14	0.5	<0.01	4.0	<0.1	0.81	5	1.8	2.1			
36517	Rock	2	11	0.01	2	0.072	2	0.41	0.002	<0.01	0.2	0.01	1.5	<0.1	>10	1	95.6	2.5			
36518	Rock	2	3	0.06	122	0.071	3	0.33	0.019	0.19	<0.1	<0.01	0.8	<0.1	0.43	<1	0.7	0.5			
36519	Rock	12	2	1.24	119	0.181	4	1.65	0.063	0.32	0.2	<0.01	5.5	<0.1	<0.05	5	<0.5	<0.2			
36520	Rock	6	1	0.08	62	0.138	3	0.61	0.029	0.37	0.1	0.02	1.3	0.2	2.81	1	1.6	1.6			
36521	Rock	10	2	0.25	70	0.106	1	0.91	0.057	0.08	0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2			
36522	Rock	3	<1	0.04	141	0.039	2	0.46	0.023	0.33	<0.1	0.03	2.1	0.2	0.71	1	2.2	2.1			
36523	Rock	6	3	1.05	115	0.076	<1	1.81	0.017	0.35	0.4	<0.01	1.5	0.2	<0.05	5	<0.5	<0.2			
36524	Rock	11	2	0.80	97	0.050	<1	1.46	0.032	0.28	0.3	<0.01	1.8	0.1	<0.05	4	<0.5	<0.2			
36525	Rock	8	2	0.74	181	0.167	<1	1.55	0.030	0.34	0.4	0.01	3.2	0.2	<0.05	5	2.0	0.3			
36526	Rock	6	1	0.21	73	0.001	<1	0.73	0.019	0.33	<0.1	0.02	0.8	0.4	2.71	1	6.6	0.6			
36527	Rock	11	1	0.03	179	<0.001	<1	0.55	0.008	0.29	<0.1	<0.01	0.5	0.2	<0.05	1	3.7	0.5			
36528	Rock	2	20	0.53	31	0.085	<1	0.66	0.002	0.10	67.5	0.05	4.3	<0.1	3.37	4	6.1	2.3			
36529	Rock	13	168	3.27	25	0.224	1	3.45	0.002	0.04	1.1	<0.01	7.0	<0.1	4.39	8	2.9	1.9			
36530	Rock	3	5	0.03	11	0.003	<1	0.11	0.003	0.03	0.2	0.02	0.4	<0.1	9.12	<1	14.8	2.8			



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

Project: BRONSON  
Report Date: October 08, 2019

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# CERTIFICATE OF ANALYSIS

VAN19002747.1

Method	AQ374	
Analyte	As	
Unit	%	
MDL	0.01	
36501	Rock	
36502	Rock	
36503	Rock	
36504	Rock	
36505	Rock	
36506	Rock	
36507	Rock	
36508	Rock	
36509	Rock	
36510	Rock	
36511	Rock	
36512	Rock	
36513	Rock	
36514	Rock	23.39
36515	Rock	
36516	Rock	
36517	Rock	
36518	Rock	
36519	Rock	
36520	Rock	
36521	Rock	
36522	Rock	
36523	Rock	
36524	Rock	
36525	Rock	
36526	Rock	
36527	Rock	
36528	Rock	
36529	Rock	
36530	Rock	





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**Project:** BRONSON  
**Report Date:** October 08, 2019

**Page:** 3 of 5

**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

VAN19002747.1

Method	WGHT	AQ201	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	1	0.01	0.001	
36531	Rock	1.72	1.4	35.8	11.7	33	0.9	8.0	8.9	722	3.35	42.5	61.2	0.9	140	<0.1	1.5	0.3	87	1.14	0.132
36532	Rock	0.93	1.0	59.7	11.0	12	1.4	0.4	0.4	47	4.99	16.3	7256.3	0.4	5	<0.1	0.8	4.8	17	<0.01	0.040
36533	Rock	1.15	0.7	38.6	109.5	69	8.5	2.4	2.4	121	2.42	143.4	553.1	0.3	56	0.5	8.7	0.8	20	0.32	0.028
36534	Rock	1.45	1.2	13.4	45.4	285	3.1	28.0	69.6	2031	13.56	20.6	104.0	0.8	104	0.2	0.3	3.7	61	2.64	0.200
36535	Rock	1.39	1.4	52.1	34.2	85	2.0	25.9	44.3	731	9.74	95.1	224.3	1.2	19	0.2	1.3	3.9	38	0.31	0.194
36536	Rock	2.13	1.0	2247.2	83.7	49	6.9	9.9	26.9	431	9.95	33.1	36.7	0.6	17	<0.1	1.9	1.2	35	0.16	0.073
36537	Rock	1.36	0.6	23.7	13.4	83	0.6	26.2	26.6	745	7.61	27.1	36.3	2.0	183	<0.1	0.8	1.5	70	1.48	0.315
36538	Rock	1.34	18.3	13.0	4.2	34	0.6	18.4	28.9	459	6.23	4.9	22.8	0.4	170	<0.1	0.9	2.0	41	0.81	0.055
36539	Rock	0.83	0.6	21.5	3.1	90	0.1	10.8	13.9	890	3.07	2.9	6.4	0.7	26	0.4	0.3	0.5	18	0.27	0.075
36540	Rock	1.15	0.3	7.7	6.1	32	0.6	1.2	3.7	322	1.96	13.3	11.0	1.2	24	<0.1	0.5	0.5	10	0.25	0.074
36541	Rock	1.49	2.2	18.7	12.6	4	0.4	0.2	0.1	28	4.72	15.0	4.4	2.9	78	<0.1	0.9	0.8	14	0.01	0.106
36542	Rock	1.72	0.9	3.4	6.7	2	0.2	0.4	1.3	35	1.13	4.5	5.4	2.5	10	<0.1	0.5	0.6	7	<0.01	0.022
36543	Rock	1.71	0.3	7.4	5.1	26	0.1	1.0	4.9	472	3.14	4.5	2.1	3.3	39	<0.1	0.3	0.4	26	0.08	0.076
36544	Rock	1.12	8.2	160.9	11.3	58	2.4	26.1	42.3	1479	6.17	32.2	3.8	2.3	99	<0.1	2.4	0.2	245	1.82	0.212
36545	Rock	0.82	2.2	13.5	18.5	36	0.2	1.5	7.2	432	3.95	1.9	8.2	3.3	16	0.1	0.4	0.2	14	0.18	0.146
36546	Rock	0.93	8.3	6.1	8.2	29	<0.1	1.5	2.1	2901	0.79	0.9	<0.5	1.2	424	<0.1	0.3	<0.1	4	3.40	0.017
36547	Rock	0.89	5.5	10.3	10.7	8	<0.1	1.3	5.4	217	2.64	10.5	1.9	2.4	13	0.1	1.4	0.2	8	0.05	0.046
36548	Rock	1.74	2.4	>10000	1994.3	1858	92.3	110.1	39.1	1984	30.68	760.0	206.7	0.2	44	14.1	2.6	59.1	5	1.31	0.022
36549	Rock	0.88	1.0	178.7	2761.4	6064	9.1	17.6	15.5	1101	5.83	28.1	176.5	2.4	65	34.5	8.3	0.4	46	0.92	0.210
36550	Rock	0.90	24.5	675.0	15.4	518	2.4	54.6	69.1	617	15.30	5.1	836.4	1.3	37	4.2	<0.1	2.6	62	1.06	0.139
36551	Rock	0.79	0.4	26.3	273.7	246	0.4	1.5	1.1	1633	2.59	3.0	2.8	0.4	14	0.6	0.2	0.3	12	0.50	0.032
36552	Rock	0.55	0.7	16.1	34.6	19	0.4	1.6	3.3	198	2.43	19.9	18.2	1.0	36	<0.1	0.6	0.9	17	0.30	0.082
36553	Rock	1.20	126.5	25.6	30.7	26	1.2	1.7	15.0	512	3.59	8.6	16.7	0.3	8	<0.1	1.0	4.5	9	0.11	0.053
36554	Rock	1.09	1.1	7.5	3.4	183	0.1	20.9	30.1	1390	6.70	1.9	7.5	0.4	10	0.1	0.1	0.4	68	0.20	0.099
36555	Rock	1.05	1.1	17.1	2.8	37	0.2	9.2	9.8	850	1.07	0.6	<0.5	7.8	35	0.2	0.2	0.1	7	0.35	0.042
36556	Rock	0.66	2.4	11.7	28.6	22	15.7	1.1	3.8	258	0.75	0.8	885.2	4.7	38	0.3	0.5	0.2	3	0.37	0.023
36557	Rock	0.88	8.5	2.3	4.0	149	0.2	24.5	9.7	1739	5.70	4.4	6.2	0.4	64	<0.1	0.2	1.3	70	0.58	0.092
36558	Rock	1.02	1.8	1.6	2.5	34	0.1	4.1	9.2	426	3.06	35.5	13.2	4.1	105	<0.1	0.3	0.8	46	0.69	0.109
36559	Rock	1.16	1.7	3.0	7.0	141	2.5	279.8	20.7	2227	8.80	3.5	16.2	0.2	58	<0.1	0.2	42.0	122	0.36	0.067
36560	Rock	0.95	1.6	3.7	8.1	67	0.6	5.3	2.4	694	3.58	7.2	25.4	2.7	56	<0.1	0.3	1.4	32	0.55	0.306



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**Project:** BRONSON  
**Report Date:** October 08, 2019

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# CERTIFICATE OF ANALYSIS

## VAN19002747.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ374	AQ374	AQ374
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu	Pb	Zn
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	0.01	0.01	0.01	0.05	1	0.5	0.2	0.001	0.01	0.01	
36531	Rock	6	16	0.95	75	0.338	2	1.32	0.014	0.10	0.7	<0.01	5.3	<0.1	1.74	4	0.9	0.4			
36532	Rock	1	11	0.03	116	0.032	<1	0.38	0.002	0.20	<0.1	0.02	1.1	<0.1	0.07	<1	14.1	2.4			
36533	Rock	<1	5	0.02	16	0.061	<1	0.26	0.004	0.02	0.3	0.07	1.7	<0.1	1.41	2	0.8	0.2			
36534	Rock	3	34	1.98	36	0.008	1	2.47	0.005	0.27	0.2	<0.01	4.7	<0.1	5.77	6	5.8	3.4			
36535	Rock	10	32	0.33	33	0.009	1	0.86	0.006	0.29	0.2	0.01	4.0	<0.1	4.38	2	6.1	2.1			
36536	Rock	3	10	0.82	33	0.032	<1	1.05	0.004	0.13	0.5	<0.01	1.9	<0.1	5.11	3	3.1	1.4			
36537	Rock	10	31	0.91	24	0.186	<1	1.73	0.003	0.09	0.4	<0.01	4.2	<0.1	5.38	5	1.6	2.1			
36538	Rock	2	20	0.38	7	0.077	<1	1.10	0.002	0.04	0.6	<0.01	1.5	<0.1	4.29	3	3.6	1.2			
36539	Rock	4	14	0.26	56	0.070	<1	0.44	0.005	0.04	0.1	<0.01	1.6	<0.1	0.99	1	0.6	0.2			
36540	Rock	5	3	0.25	128	0.053	<1	0.69	0.012	0.25	0.1	<0.01	1.2	0.1	0.73	1	<0.5	0.6			
36541	Rock	10	1	0.03	269	0.048	<1	0.41	0.031	0.28	<0.1	0.01	1.7	0.1	0.19	1	1.8	0.7			
36542	Rock	2	1	0.04	122	0.125	<1	0.38	0.016	0.26	<0.1	0.02	1.7	0.1	0.76	<1	<0.5	0.3			
36543	Rock	8	2	0.70	74	0.127	<1	0.90	0.055	0.23	0.2	<0.01	5.3	<0.1	1.96	4	<0.5	0.2			
36544	Rock	7	46	1.60	193	0.383	<1	4.01	0.330	2.38	0.9	<0.01	17.8	3.5	1.26	12	0.6	<0.2			
36545	Rock	9	1	0.39	42	0.006	1	0.75	0.049	0.29	<0.1	0.01	1.8	0.2	2.97	2	3.5	0.4			
36546	Rock	4	4	0.05	351	0.003	1	0.17	0.006	0.17	<0.1	<0.01	1.0	<0.1	<0.05	<1	<0.5	<0.2			
36547	Rock	5	<1	0.04	69	0.031	2	0.43	0.039	0.24	<0.1	0.02	1.0	0.1	2.06	1	0.9	0.7			
36548	Rock	2	4	0.56	17	0.002	<1	0.36	0.003	0.09	<0.1	0.14	0.9	0.2	>10	1	24.0	1.0	1.602	0.20	0.20
36549	Rock	13	12	1.47	129	0.048	<1	2.11	0.018	0.64	0.2	0.21	2.1	0.8	1.52	4	1.3	<0.2			
36550	Rock	6	21	1.23	15	0.157	<1	1.60	0.047	0.47	0.4	<0.01	1.8	0.4	>10	5	9.3	2.6			
36551	Rock	1	4	1.21	47	0.036	<1	1.24	0.006	0.07	0.1	<0.01	0.8	<0.1	0.13	2	<0.5	0.3			
36552	Rock	4	4	0.10	157	0.105	1	0.54	0.016	0.28	0.6	<0.01	2.0	<0.1	0.87	2	<0.5	0.8			
36553	Rock	1	3	0.09	34	0.042	<1	0.41	0.005	0.17	0.2	<0.01	0.8	<0.1	2.06	<1	0.8	0.7			
36554	Rock	2	5	2.58	328	0.052	<1	3.46	0.011	0.27	0.1	<0.01	3.4	0.1	0.36	7	0.5	<0.2			
36555	Rock	10	2	0.37	253	0.010	<1	1.11	0.010	0.38	0.2	<0.01	0.5	0.2	<0.05	2	<0.5	<0.2			
36556	Rock	10	2	0.12	898	0.001	<1	0.39	0.019	0.15	<0.1	0.02	0.3	<0.1	0.18	<1	<0.5	<0.2			
36557	Rock	1	52	3.30	64	0.114	<1	3.28	0.004	0.08	0.8	<0.01	3.1	<0.1	1.40	6	0.8	0.2			
36558	Rock	6	3	0.99	103	0.109	<1	1.41	0.059	0.18	0.1	<0.01	2.0	<0.1	1.23	4	2.6	0.9			
36559	Rock	2	679	4.94	11	0.157	<1	4.56	<0.001	0.02	20.6	<0.01	8.8	<0.1	1.28	11	7.8	26.2			
36560	Rock	13	5	1.15	113	0.098	<1	1.99	0.055	0.33	0.2	<0.01	1.7	0.2	0.17	4	1.1	0.5			



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Project: BRONSON  
Report Date: October 08, 2019

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# CERTIFICATE OF ANALYSIS

VAN19002747.1

Method	AQ374	
Analyte	As	
Unit	%	
MDL	0.01	
36531	Rock	
36532	Rock	
36533	Rock	
36534	Rock	
36535	Rock	
36536	Rock	
36537	Rock	
36538	Rock	
36539	Rock	
36540	Rock	
36541	Rock	
36542	Rock	
36543	Rock	
36544	Rock	
36545	Rock	
36546	Rock	
36547	Rock	
36548	Rock	0.06
36549	Rock	
36550	Rock	
36551	Rock	
36552	Rock	
36553	Rock	
36554	Rock	
36555	Rock	
36556	Rock	
36557	Rock	
36558	Rock	
36559	Rock	
36560	Rock	



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# CERTIFICATE OF ANALYSIS

# VAN19002747.1

Method	WGHT	AQ201	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	1	0.01	0.001	
36561	Rock	0.57	3.0	18.3	4.8	53	0.9	5.3	9.7	540	6.88	1.9	32.4	3.1	11	<0.1	0.2	2.1	42	0.23	0.225
36562	Rock	0.69	0.8	11.7	4.6	34	0.2	56.6	4.0	376	2.30	4.5	10.1	0.7	81	<0.1	0.5	0.6	50	0.59	0.101
36563	Rock	0.72	1.5	8.6	2.9	55	0.6	16.4	7.9	939	4.82	53.7	41.6	1.7	63	<0.1	0.3	1.4	99	0.54	0.265
36564	Rock	0.91	1.1	6.6	2.4	9	1.1	4.4	3.3	247	2.65	12.6	77.7	0.7	177	<0.1	1.3	1.5	49	1.35	0.178
36565	Rock	0.66	1.5	54.8	66.6	30	13.8	68.6	68.5	450	10.71	299.1	2352.5	0.2	73	<0.1	2.5	11.6	51	0.54	0.066
36566	Rock	0.83	0.9	125.0	24.0	332	0.5	75.9	16.8	2526	4.48	4.8	25.4	0.9	376	2.2	0.1	0.3	120	7.41	0.116
36567	Rock	1.16	1.2	18.5	15.0	277	0.4	61.8	12.4	1218	6.97	3.1	29.5	0.7	78	0.2	<0.1	0.6	132	0.67	0.103
36568	Rock	1.20	2.1	391.0	65.9	116	6.7	174.9	81.4	1957	29.57	333.4	204.6	0.3	60	1.5	0.4	4.1	22	0.42	0.028
36569	Rock	0.75	2.3	76.7	6.7	80	0.3	183.4	24.5	708	3.26	10.1	31.4	0.9	81	0.1	0.2	0.4	124	2.12	0.105
36570	Rock	1.01	3.7	53.6	16.3	195	0.8	232.6	28.1	1778	3.21	15.9	647.5	0.5	167	1.9	0.2	3.8	75	2.46	0.074
36571	Rock	0.78	0.6	10.7	394.3	555	1.0	72.8	12.5	4252	5.37	28.3	5.5	0.4	881	5.8	0.6	0.2	31	14.01	0.058
36572	Rock	1.12	0.3	23.1	34.5	848	0.3	59.4	11.6	3717	4.43	36.0	3.4	0.3	1060	7.5	0.6	<0.1	19	14.91	0.053
36573	Rock	0.91	<0.1	617.9	1910.5	>10000	45.6	2.7	22.4	3626	12.15	39.2	1463.0	0.1	12	>2000	3.1	9.7	3	0.23	0.002
36574	Rock	0.80	2.5	725.1	48.6	6971	7.4	129.0	33.9	2482	10.13	48.9	496.9	1.2	162	53.3	1.0	4.9	113	2.36	0.097
36575	Rock	0.71	2.4	21.6	53.1	1718	0.5	1.8	6.1	242	4.26	2.6	20.3	4.6	11	12.8	0.4	3.7	9	0.15	0.127
36576	Rock	0.78	2.1	12.4	11.3	226	0.1	2.2	11.4	1467	4.32	1.1	5.1	3.4	61	0.5	0.2	0.5	17	1.06	0.127
36577	Rock	0.89	0.8	19.0	36.1	356	0.1	2.3	8.7	574	3.26	5.6	2.7	3.5	81	6.3	0.8	0.9	14	1.89	0.104
36578	Rock	2.33	0.3	3.0	0.6	22	<0.1	0.6	0.5	96	0.61	1.8	<0.5	0.7	9	0.2	<0.1	<0.1	1	0.03	0.019
36579	Rock	0.60	0.3	4.4	6.1	134	<0.1	1.0	3.2	621	1.52	6.8	36.8	0.8	391	1.0	1.4	<0.1	40	1.81	0.102
36580	Rock	1.72	7.0	615.3	6.7	75	4.4	41.0	338.3	752	14.36	3.7	229.2	1.2	25	0.6	<0.1	1.9	96	1.50	0.148
36581	Rock	0.53	6.0	1048.1	8.2	169	4.3	122.1	86.9	496	13.78	5.2	69.2	0.8	101	1.7	<0.1	0.7	19	1.14	0.102
36582	Rock	1.46	0.7	225.1	2.8	180	0.6	54.5	25.7	823	5.81	0.6	9.3	0.8	76	0.8	0.1	0.3	135	0.67	0.150
36583	Rock	1.07	1.6	504.6	2.6	50	1.2	51.3	46.7	426	4.06	2.1	16.9	1.2	24	0.2	<0.1	0.4	81	0.79	0.134
36584	Rock	1.53	3.2	433.5	4.4	138	0.8	71.3	26.2	870	4.94	1.5	22.5	1.0	118	0.3	<0.1	0.5	32	1.80	0.112
36585	Rock	1.23	24.7	84.7	19.9	181	0.5	180.2	22.7	841	3.90	4.4	15.6	1.0	196	0.8	0.2	0.5	117	2.07	0.114
36586	Rock	0.95	21.5	216.2	19.1	>10000	2.6	76.4	18.2	1090	6.10	1.7	52.9	1.2	206	113.0	0.1	1.0	82	2.35	0.121
36587	Rock	1.14	2.7	337.3	15.4	315	1.9	81.1	23.3	773	4.09	5.2	399.0	1.0	439	3.9	0.2	1.8	68	2.84	0.107
36588	Rock	0.74	0.7	102.4	10.7	124	0.8	55.3	17.7	649	4.79	51.2	5.3	1.4	28	0.1	0.4	0.4	138	0.63	0.120
36589	Rock	0.96	4.8	411.9	66.1	362	3.0	77.6	19.8	951	5.43	71.8	44.7	2.8	47	2.6	0.7	1.7	24	0.53	0.023
36590	Rock	0.87	0.9	311.4	5.5	3863	1.8	171.3	21.3	270	4.36	4.9	1358.7	0.5	15	37.6	0.2	1.5	78	0.29	0.053



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**Report Date:** October 08, 2019

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# CERTIFICATE OF ANALYSIS

## VAN19002747.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ374	AQ374	AQ374
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te	Cu	Pb	Zn
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	0.01	0.01	0.01	0.05	1	0.5	0.2	0.001	0.01	0.01	
36561	Rock	8	8	0.72	87	0.049	<1	1.32	0.008	0.30	0.3	<0.01	3.1	0.1	0.59	4	1.9	1.3			
36562	Rock	22	67	0.84	79	0.180	<1	1.26	0.058	0.16	0.3	<0.01	2.0	<0.1	0.59	4	0.7	0.4			
36563	Rock	7	25	3.08	200	0.226	<1	3.03	0.088	0.49	0.5	<0.01	4.2	0.2	0.93	10	1.5	2.1			
36564	Rock	5	7	0.16	13	0.168	<1	0.96	0.005	0.05	0.3	<0.01	2.7	<0.1	0.50	3	1.1	3.0			
36565	Rock	2	94	0.87	17	0.169	<1	1.06	0.006	0.03	0.5	0.03	4.5	<0.1	9.59	4	7.8	16.5			
36566	Rock	4	123	1.80	209	0.276	1	4.16	0.292	2.02	0.5	<0.01	10.9	0.8	0.76	11	1.9	<0.2			
36567	Rock	2	125	2.93	164	0.308	<1	5.53	0.232	2.76	0.4	<0.01	13.3	1.2	0.86	15	0.5	<0.2			
36568	Rock	2	14	0.88	17	0.042	<1	1.38	0.010	0.15	0.2	<0.01	1.4	0.2	8.83	4	6.5	1.0			
36569	Rock	3	236	2.17	675	0.220	<1	3.19	0.223	1.84	0.3	<0.01	9.8	0.8	0.43	10	0.9	0.2			
36570	Rock	2	280	0.99	116	0.137	1	3.63	0.262	1.04	0.6	<0.01	5.8	0.9	0.69	8	<0.5	2.2			
36571	Rock	4	34	3.57	71	0.002	<1	0.19	0.063	0.06	<0.1	0.02	5.4	<0.1	0.13	<1	0.6	0.5			
36572	Rock	4	34	4.60	90	0.006	1	0.45	0.027	0.20	<0.1	0.02	3.4	<0.1	0.19	1	<0.5	<0.2			
36573	Rock	1	2	0.07	4	<0.001	<1	0.16	<0.001	<0.01	0.3	5.75	0.5	0.3	5.73	8	6.7	0.6	0.077	0.20	47.40
36574	Rock	5	107	2.59	26	0.205	2	6.11	0.071	1.10	1.2	0.10	7.7	1.1	5.71	17	2.1	1.1			
36575	Rock	14	1	0.05	147	0.003	1	0.69	0.048	0.28	<0.1	0.04	1.6	0.2	0.47	1	1.9	0.4			
36576	Rock	10	2	1.30	52	0.004	1	1.51	0.051	0.31	<0.1	<0.01	2.1	0.2	2.81	3	2.3	<0.2			
36577	Rock	19	1	0.62	45	0.025	2	0.95	0.026	0.62	<0.1	0.08	1.3	0.7	3.26	2	1.2	<0.2			
36578	Rock	2	4	<0.01	22	<0.001	17	0.05	0.005	0.02	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2			
36579	Rock	8	2	0.28	78	0.083	2	1.14	0.046	0.06	<0.1	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2			
36580	Rock	6	7	0.72	12	0.168	<1	1.35	0.107	0.40	25.4	<0.01	4.0	0.2	>10	5	2.6	1.8			
36581	Rock	4	13	0.56	18	0.082	<1	1.31	0.126	0.08	0.8	<0.01	0.9	0.2	>10	3	14.2	1.2			
36582	Rock	5	74	1.59	49	0.388	<1	2.70	0.217	1.85	0.2	<0.01	9.8	0.9	1.95	10	1.6	0.2			
36583	Rock	7	79	1.17	58	0.201	<1	1.41	0.116	0.95	0.7	<0.01	3.5	0.4	1.92	5	3.1	0.7			
36584	Rock	3	23	1.16	36	0.112	<1	2.05	0.103	0.50	0.3	<0.01	2.0	0.4	1.77	6	2.5	0.9			
36585	Rock	3	173	2.76	439	0.255	1	5.80	0.531	2.34	0.3	<0.01	6.8	1.1	0.52	13	0.8	<0.2			
36586	Rock	5	83	0.65	33	0.165	<1	2.45	0.122	0.63	0.6	0.27	6.5	0.3	3.58	6	1.6	0.5	0.021	<0.01	1.23
36587	Rock	3	102	0.74	105	0.150	1	4.26	0.117	0.63	0.9	<0.01	5.9	0.5	2.03	11	1.9	1.5			
36588	Rock	4	59	2.09	438	0.292	<1	3.18	0.171	2.35	0.5	<0.01	10.5	0.9	0.53	11	1.3	<0.2			
36589	Rock	7	10	0.86	56	0.098	<1	1.84	0.157	0.77	1.0	<0.01	1.8	0.7	3.15	6	2.2	<0.2			
36590	Rock	2	441	1.88	61	0.195	<1	1.89	0.124	1.28	0.7	<0.01	3.5	0.5	1.70	6	1.8	<0.2			



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Project: BRONSON  
Report Date: October 08, 2019

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# CERTIFICATE OF ANALYSIS

VAN19002747.1

Method	AQ374	
Analyte	As	
Unit	%	
MDL	0.01	
36561	Rock	
36562	Rock	
36563	Rock	
36564	Rock	
36565	Rock	
36566	Rock	
36567	Rock	
36568	Rock	
36569	Rock	
36570	Rock	
36571	Rock	
36572	Rock	
36573	Rock	<0.01
36574	Rock	
36575	Rock	
36576	Rock	
36577	Rock	
36578	Rock	
36579	Rock	
36580	Rock	
36581	Rock	
36582	Rock	
36583	Rock	
36584	Rock	
36585	Rock	
36586	Rock	<0.01
36587	Rock	
36588	Rock	
36589	Rock	
36590	Rock	



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**Client: Imperial Metals Corporation**  
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Vancouver British Columbia V6C 3B6 Canada

Project: BRONSON  
Report Date: October 08, 2019

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# CERTIFICATE OF ANALYSIS

**VAN19002747.1**

Method	Analyte	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	
		MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	1	0.01	0.001
36591	Rock	1.06	4.4	143.7	207.2	2060	3.9	59.9	36.4	2201	12.51	370.3	806.2	1.3	92	16.2	4.2	0.9	51	3.37	0.114	
36592	Rock	0.65	0.7	81.0	32.5	44	1.3	20.3	30.4	1198	4.64	5.7	44.9	0.6	363	0.4	0.3	0.3	91	10.25	0.188	
36601	Rock	1.47	0.6	29.6	8.5	63	0.7	2.5	3.9	543	1.61	6.2	17.2	1.8	85	0.5	0.4	1.1	44	1.84	0.070	
36602	Rock	1.28	0.2	23.7	3.1	13	<0.1	2.2	5.2	828	2.43	6.9	0.6	2.9	147	<0.1	1.0	<0.1	112	3.79	0.067	
36603	Rock	1.60	0.7	2.7	4.1	82	<0.1	0.5	4.0	700	2.08	1.5	<0.5	2.0	79	<0.1	0.4	<0.1	12	0.21	0.096	
36604	Rock	1.58	6.1	4.2	10.5	7	0.2	0.3	4.9	64	2.25	1.6	1.2	2.8	29	<0.1	0.5	<0.1	6	0.13	0.072	
36605	Rock	1.26	0.1	1.9	1.6	57	<0.1	0.5	2.8	855	1.62	1.4	<0.5	2.2	147	<0.1	0.1	<0.1	15	1.62	0.069	
36606	Rock	1.91	0.6	5.5	6.9	77	<0.1	0.6	5.3	1495	2.44	1.9	<0.5	3.1	144	0.4	0.2	<0.1	14	2.85	0.107	
36626	Rock	0.59	17.6	2923.8	27.3	>10000	13.6	147.4	147.8	1352	15.80	89.1	572.0	0.6	107	179.4	1.6	4.3	56	2.18	0.057	
36627	Rock	1.88	0.4	31.7	23.2	360	0.7	6.0	1.4	132	0.66	5.3	184.9	9.0	4	6.8	0.1	2.0	3	0.04	0.002	
36628	Rock	0.25	1.2	1293.1	414.1	>10000	15.8	135.9	15.0	1049	9.94	5.6	9200.9	0.7	227	984.4	0.4	13.1	50	2.45	0.072	
36629	Rock	1.45	0.7	717.1	627.6	2351	6.7	88.0	14.7	1296	8.22	2.0	76.7	2.1	15	15.9	2.3	4.1	126	0.57	0.194	
36630	Rock	1.15	5.8	202.2	>10000	>10000	86.1	178.3	54.2	2499	6.73	2097.6	657.1	0.6	161	478.6	23.5	52.7	115	2.70	0.078	
36631	Rock	1.43	2.6	127.8	139.5	1556	1.5	97.3	11.9	3143	4.26	163.3	24.7	0.3	316	12.2	0.7	1.0	75	8.60	0.062	



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Project: BRONSON  
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# CERTIFICATE OF ANALYSIS

VAN19002747.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ374	AQ374	AQ374
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu	Pb	Zn
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	0.05	1	0.5	0.2	0.001	0.01	0.01	
36591	Rock	5	21	0.42	20	0.103	<1	1.30	0.019	0.27	0.8	0.12	3.0	0.4	>10	4	1.5	<0.2			
36592	Rock	5	4	0.68	68	0.142	2	3.46	0.429	0.53	0.4	<0.01	3.9	0.6	3.01	9	<0.5	<0.2			
36601	Rock	4	4	0.38	81	0.076	1	3.03	0.338	0.44	0.4	<0.01	2.8	0.4	0.60	8	<0.5	0.8			
36602	Rock	5	2	0.25	52	0.137	<1	0.53	0.108	0.15	0.1	0.01	4.1	<0.1	<0.05	1	<0.5	<0.2			
36603	Rock	9	2	0.52	1509	0.011	1	1.04	0.048	0.16	<0.1	<0.01	0.9	<0.1	0.08	3	<0.5	<0.2			
36604	Rock	13	<1	0.07	84	0.018	2	0.51	0.037	0.29	<0.1	0.03	0.6	<0.1	1.65	1	<0.5	<0.2			
36605	Rock	10	2	0.10	1378	0.014	<1	0.35	0.060	0.15	<0.1	<0.01	0.8	<0.1	<0.05	1	<0.5	<0.2			
36606	Rock	23	1	0.14	1148	0.003	<1	0.43	0.068	0.21	<0.1	<0.01	1.5	<0.1	<0.05	1	<0.5	<0.2			
36626	Rock	3	30	0.63	16	0.098	<1	1.76	0.060	0.39	5.2	0.17	4.1	0.5	9.04	5	12.7	4.6	0.296	<0.01	1.94
36627	Rock	3	4	0.04	19	0.011	<1	0.22	0.075	0.11	0.4	<0.01	0.7	<0.1	0.16	1	<0.5	<0.2			
36628	Rock	3	57	1.02	23	0.138	<1	4.34	0.118	0.78	0.7	3.57	4.4	0.5	6.50	10	5.6	0.4	0.120	0.04	10.68
36629	Rock	3	54	2.02	43	0.185	<1	3.29	0.048	1.71	0.2	0.07	6.7	1.1	3.60	8	1.8	0.3			
36630	Rock	2	236	1.75	80	0.187	1	5.50	0.188	1.77	1.0	0.23	10.2	1.4	4.25	15	8.3	1.5	0.020	1.67	5.62
36631	Rock	3	180	1.32	66	0.141	2	5.28	0.140	1.04	0.9	0.01	4.8	0.8	1.51	14	0.7	<0.2			





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Project: BRONSON  
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## CERTIFICATE OF ANALYSIS

VAN19002747.1

	Method	AQ374
	Analyte	As
	Unit	%
	MDL	0.01
36591	Rock	
36592	Rock	
36601	Rock	
36602	Rock	
36603	Rock	
36604	Rock	
36605	Rock	
36606	Rock	
36626	Rock	0.01
36627	Rock	
36628	Rock	<0.01
36629	Rock	
36630	Rock	0.21
36631	Rock	



# QUALITY CONTROL REPORT

VAN19002747.1

Method	WGHT	AQ201	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	1	0.01	0.001	
Pulp Duplicates																					
36514	Rock	2.40	2.1	1577.2	16.9	68	1.7	39.6	206.6	498	37.68	>10000	2512.3	0.1	2	0.4	53.4	2.5	62	0.04	0.019
REP 36514	QC																				
36533	Rock	1.15	0.7	38.6	109.5	69	8.5	2.4	2.4	121	2.42	143.4	553.1	0.3	56	0.5	8.7	0.8	20	0.32	0.028
REP 36533	QC		0.7	39.0	110.4	70	8.4	2.5	2.4	121	2.43	144.6	644.4	0.3	56	0.5	8.8	0.8	19	0.32	0.028
36568	Rock	1.20	2.1	391.0	65.9	116	6.7	174.9	81.4	1957	29.57	333.4	204.6	0.3	60	1.5	0.4	4.1	22	0.42	0.028
REP 36568	QC		2.1	393.7	67.2	118	6.5	174.4	82.2	2002	30.27	335.8	193.8	0.3	61	1.5	0.4	4.2	22	0.43	0.029
36573	Rock	0.91	<0.1	617.9	1910.5	>10000	45.6	2.7	22.4	3626	12.15	39.2	1463.0	0.1	12	>2000	3.1	9.7	3	0.23	0.002
REP 36573	QC		<0.1	636.3	1909.8	>10000	46.6	2.9	21.6	3545	11.87	39.4	1495.3	<0.1	12	>2000	3.1	10.0	3	0.23	0.002
36630	Rock	1.15	5.8	202.2	>10000	>10000	86.1	178.3	54.2	2499	6.73	2097.6	657.1	0.6	161	478.6	23.5	52.7	115	2.70	0.078
REP 36630	QC		5.7	203.8	>10000	>10000	86.1	178.1	54.7	2526	6.84	2089.1	678.7	0.6	160	467.3	23.1	52.0	115	2.71	0.079
Core Reject Duplicates																					
36517	Rock	0.94	31.3	51.8	28.1	16	1.4	167.1	228.5	95	15.09	147.8	18.4	0.6	111	0.1	0.3	5.2	103	0.62	0.017
DUP 36517	QC		32.4	50.0	27.5	15	1.4	165.2	214.5	101	15.22	105.9	19.4	0.5	113	<0.1	0.3	5.2	101	0.61	0.018
36551	Rock	0.79	0.4	26.3	273.7	246	0.4	1.5	1.1	1633	2.59	3.0	2.8	0.4	14	0.6	0.2	0.3	12	0.50	0.032
DUP 36551	QC		0.4	28.3	280.3	252	0.4	1.5	1.2	1744	2.72	3.3	5.2	0.4	15	0.6	0.1	0.3	13	0.53	0.033
36585	Rock	1.23	24.7	84.7	19.9	181	0.5	180.2	22.7	841	3.90	4.4	15.6	1.0	196	0.8	0.2	0.5	117	2.07	0.114
DUP 36585	QC		24.8	82.9	19.8	182	0.4	181.7	23.1	852	3.94	4.6	25.7	1.0	197	0.8	0.2	0.5	119	2.14	0.119
Reference Materials																					
STD BVGEO01	Standard		10.8	4415.2	179.8	1728	2.5	161.1	24.7	719	3.72	105.5	216.6	13.5	55	5.9	3.2	22.9	74	1.30	0.068
STD BVGEO01	Standard		10.7	4475.2	177.9	1752	2.6	158.5	24.8	713	3.67	108.9	214.7	13.6	54	5.9	2.8	22.8	76	1.25	0.067
STD DS11	Standard		14.7	151.7	135.5	371	1.8	79.6	13.6	1042	3.13	43.7	73.3	7.7	71	2.6	8.5	11.5	52	1.10	0.070
STD DS11	Standard		15.0	154.3	136.2	338	1.8	84.6	14.4	1017	3.16	39.5	77.6	7.6	66	2.3	8.2	11.0	50	1.05	0.065
STD DS11	Standard		14.8	145.2	128.0	328	1.7	79.0	13.3	1024	3.07	38.9	86.3	7.4	65	2.2	8.7	10.6	49	1.05	0.063
STD DS11	Standard		14.1	137.9	133.8	332	1.6	72.8	12.9	992	3.10	42.4	75.4	8.3	66	2.3	8.9	11.4	49	1.04	0.075
STD GC-7	Standard																				
STD GC-7	Standard																				
STD OREAS133B	Standard																				
STD OREAS133B	Standard																				



# QUALITY CONTROL REPORT

VAN19002747.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ374	AQ374	AQ374
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu	Pb	Zn
Unit		ppm	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	0.001	0.01	0.01
Pulp Duplicates																					
36514	Rock	<1	13	1.02	1	0.013	<1	1.73	0.001	<0.01	<0.1	0.04	3.2	0.1	>10	7	>100	27.2	0.162	<0.01	<0.01
REP 36514	QC																		0.163	<0.01	<0.01
36533	Rock	<1	5	0.02	16	0.061	<1	0.26	0.004	0.02	0.3	0.07	1.7	<0.1	1.41	2	0.8	0.2			
REP 36533	QC	<1	5	0.02	16	0.061	<1	0.26	0.004	0.02	0.3	0.08	1.8	<0.1	1.41	2	0.7	0.2			
36568	Rock	2	14	0.88	17	0.042	<1	1.38	0.010	0.15	0.2	<0.01	1.4	0.2	8.83	4	6.5	1.0			
REP 36568	QC	2	14	0.90	18	0.042	<1	1.41	0.010	0.16	0.2	<0.01	1.4	0.2	9.20	4	6.8	1.1			
36573	Rock	1	2	0.07	4	<0.001	<1	0.16	<0.001	<0.01	0.3	5.75	0.5	0.3	5.73	8	6.7	0.6	0.077	0.20	47.40
REP 36573	QC	1	2	0.07	3	<0.001	<1	0.16	<0.001	<0.01	0.3	5.88	0.4	0.1	5.36	8	6.1	0.9	0.076	0.20	47.48
36630	Rock	2	236	1.75	80	0.187	1	5.50	0.188	1.77	1.0	0.23	10.2	1.4	4.25	15	8.3	1.5	0.020	1.67	5.62
REP 36630	QC	2	239	1.76	79	0.187	1	5.53	0.186	1.75	0.9	0.20	10.2	1.4	4.38	15	8.3	1.5			
Core Reject Duplicates																					
36517	Rock	2	11	0.01	2	0.072	2	0.41	0.002	<0.01	0.2	0.01	1.5	<0.1	>10	1	95.6	2.5			
DUP 36517	QC	2	10	0.01	2	0.071	1	0.40	0.002	<0.01	0.2	<0.01	1.5	<0.1	>10	1	96.5	2.6			
36551	Rock	1	4	1.21	47	0.036	<1	1.24	0.006	0.07	0.1	<0.01	0.8	<0.1	0.13	2	<0.5	0.3			
DUP 36551	QC	1	4	1.28	50	0.038	<1	1.32	0.006	0.08	0.1	<0.01	0.8	<0.1	0.14	3	<0.5	0.3			
36585	Rock	3	173	2.76	439	0.255	1	5.80	0.531	2.34	0.3	<0.01	6.8	1.1	0.52	13	0.8	<0.2			
DUP 36585	QC	4	175	2.78	412	0.249	1	5.64	0.537	2.37	0.3	<0.01	6.7	1.2	0.52	13	0.8	<0.2			
Reference Materials																					
STD BVGE001	Standard	25	190	1.29	267	0.233	3	2.37	0.194	0.90	5.0	0.11	5.8	0.6	0.64	7	4.5	1.0			
STD BVGE001	Standard	25	183	1.26	272	0.228	3	2.26	0.196	0.91	4.9	0.10	5.7	0.6	0.66	7	4.8	1.0			
STD DS11	Standard	18	62	0.90	375	0.097	7	1.24	0.080	0.42	3.0	0.28	3.3	4.9	0.30	5	2.1	4.7			
STD DS11	Standard	18	62	0.85	353	0.092	5	1.18	0.074	0.40	3.0	0.28	3.1	5.1	0.28	5	2.2	4.8			
STD DS11	Standard	18	59	0.82	363	0.094	6	1.20	0.073	0.40	3.0	0.26	3.1	4.8	0.28	5	2.1	4.5			
STD DS11	Standard	20	54	0.82	347	0.085	8	1.16	0.074	0.39	2.9	0.23	3.3	4.5	0.27	5	2.4	4.5			
STD GC-7	Standard																		0.572	>10	21.62
STD GC-7	Standard																		0.542	9.84	21.77
STD OREAS133B	Standard																		0.031	4.89	11.28
STD OREAS133B	Standard																		0.032	4.82	11.29



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Vancouver British Columbia V6C 3B6 Canada

Project: BRONSON  
Report Date: October 08, 2019

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# QUALITY CONTROL REPORT

VAN19002747.1

	Method	AQ374
Analyte		As
Unit		%
MDL		0.01
Pulp Duplicates		
36514	Rock	23.39
REP 36514	QC	23.58
36533	Rock	
REP 36533	QC	
36568	Rock	
REP 36568	QC	
36573	Rock	<0.01
REP 36573	QC	<0.01
36630	Rock	0.21
REP 36630	QC	
Core Reject Duplicates		
36517	Rock	
DUP 36517	QC	
36551	Rock	
DUP 36551	QC	
36585	Rock	
DUP 36585	QC	
Reference Materials		
STD BVGE001	Standard	
STD BVGE001	Standard	
STD DS11	Standard	
STD DS11	Standard	
STD DS11	Standard	
STD DS11	Standard	
STD GC-7	Standard	0.16
STD GC-7	Standard	0.17
STD OREAS133B	Standard	0.01
STD OREAS133B	Standard	<0.01



# QUALITY CONTROL REPORT

VAN19002747.1

		WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		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	1	0.01	0.001
STD OREAS262	Standard		0.6	113.8	55.2	236	0.5	64.4	26.1	557	3.23	34.8	69.7	9.0	35	1.3	5.6	1.0	23	2.85	0.039
STD OREAS262	Standard		0.7	114.9	53.2	151	0.5	66.3	27.8	541	3.29	32.0	56.7	8.7	34	0.6	4.7	0.9	22	2.98	0.037
STD OREAS262	Standard		0.7	114.2	53.0	146	0.5	65.2	27.6	536	3.34	32.1	60.1	8.7	34	0.6	4.5	0.9	22	2.98	0.038
STD OREAS262	Standard		0.7	115.0	53.8	147	0.4	66.0	27.5	540	3.26	33.0	61.5	8.8	34	0.6	4.5	1.0	22	3.07	0.038
STD OREAS262	Standard		0.7	112.5	52.5	142	0.5	64.1	26.5	525	3.22	32.1	70.1	8.7	34	0.6	5.8	0.9	22	2.88	0.036
STD OREAS262	Standard		0.7	114.6	62.9	164	0.5	59.3	25.6	579	3.34	39.3	65.9	10.4	39	0.8	6.7	1.1	23	3.05	0.043
STD BVGEO01 Expected			11.2	4415	187	1741	2.53	163	25	733	3.7	121	219	14.4	55	6.5	3.39	25.6	73	1.3219	0.0727
STD DS11 Expected			14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701
STD OREAS262 Expected			0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	65	9.33	36	0.61	5.06	1.03	22.5	2.98	0.04
STD GC-7 Expected																					
STD OREAS133B Expected																					
BLK	Blank		<0.1	<0.1	<0.1	7	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001
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	<1	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	2	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001
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	<1	<0.01	<0.001
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	<1	<0.01	<0.001
BLK	Blank																				
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	<1	<0.01	<0.001
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank		0.9	4.5	1.1	29	<0.1	0.9	3.5	460	1.82	1.0	1.1	2.2	26	<0.1	<0.1	<0.1	26	0.67	0.036
ROCK-VAN	Prep Blank		0.9	3.7	1.0	29	<0.1	0.8	3.4	455	1.80	0.9	0.7	2.2	25	<0.1	<0.1	<0.1	25	0.65	0.036



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Project: BRONSON  
Report Date: October 08, 2019

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# QUALITY CONTROL REPORT

VAN19002747.1

		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ374	AQ374	AQ374
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Cu	Pb	Zn
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	%	%
		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	0.001	0.01	0.01
STD OREAS262	Standard	17	43	1.17	259	0.003	4	1.42	0.067	0.33	0.2	0.18	3.4	0.4	0.25	4	<0.5	0.2			
STD OREAS262	Standard	15	45	1.16	240	0.003	3	1.33	0.071	0.30	0.2	0.17	3.1	0.5	0.26	4	<0.5	0.2			
STD OREAS262	Standard	16	44	1.15	239	0.003	3	1.34	0.070	0.31	0.2	0.17	3.1	0.5	0.26	4	<0.5	0.2			
STD OREAS262	Standard	16	44	1.17	245	0.003	3	1.34	0.069	0.32	0.2	0.17	3.0	0.5	0.27	4	<0.5	0.2			
STD OREAS262	Standard	16	44	1.16	236	0.003	3	1.37	0.067	0.32	0.2	0.18	3.0	0.5	0.26	4	<0.5	0.2			
STD OREAS262	Standard	21	45	1.19	290	0.003	5	1.43	0.072	0.34	0.2	0.17	3.7	0.4	0.27	5	<0.5	0.2			
STD BVGEO01 Expected		25.9	187	1.2963	260	0.233	3.8	2.347	0.1924	0.89	5.3	0.1	5.97	0.62	0.6655	7.37	4.84	1.02			
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56			
STD OREAS262 Expected		15.9	41.7	1.17	248	0.0027	4	1.3	0.071	0.312	0.2	0.17	3.24	0.47	0.253	3.73	0.4	0.23			
STD GC-7 Expected																			0.555	10.44	22.06
STD OREAS133B Expected																			0.032	5.07	11.12
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			
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			
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			
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			
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			
BLK	Blank																		<0.001	<0.01	<0.01
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			
BLK	Blank																		<0.001	<0.01	<0.01
Prep Wash																					
ROCK-VAN	Prep Blank	6	3	0.43	54	0.087	2	0.88	0.086	0.08	<0.1	<0.01	2.6	<0.1	<0.05	4	<0.5	<0.2			
ROCK-VAN	Prep Blank	6	3	0.42	52	0.086	2	0.84	0.078	0.08	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2			



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Vancouver British Columbia V6C 3B6 Canada

Project: BRONSON  
Report Date: October 08, 2019

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# QUALITY CONTROL REPORT

VAN19002747.1

		AQ374 As % 0.01
STD OREAS262	Standard	
STD OREAS262	Standard	
STD OREAS262	Standard	
STD OREAS262	Standard	
STD OREAS262	Standard	
STD OREAS262	Standard	
STD BVGEO01	Expected	
STD DS11	Expected	
STD OREAS262	Expected	
STD GC-7	Expected	0.16
STD OREAS133B	Expected	0.0144
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	
BLK	Blank	<0.01
BLK	Blank	
BLK	Blank	<0.01
Prep Wash		
ROCK-VAN	Prep Blank	
ROCK-VAN	Prep Blank	



# AQ300, AQ200

Package Description	Geochemical aqua regia digestion
Sample Digestion	HNO <sub>3</sub> -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, HNO<sub>3</sub> and DI H<sub>2</sub>O 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.





**BUREAU  
VERITAS**

# AQ370 & AQ270

Package Description	Aqua regia digestion Ore Grade ICP analysis
Sample Digestion	HNO <sub>3</sub> -HCl acid digestion
Instrumentation Method	ICP-ES (AQ370, AQ270), ICP-MS (AQ270)
Legacy Code	7AR & 7AX
Applicability	Rock and Drill Core

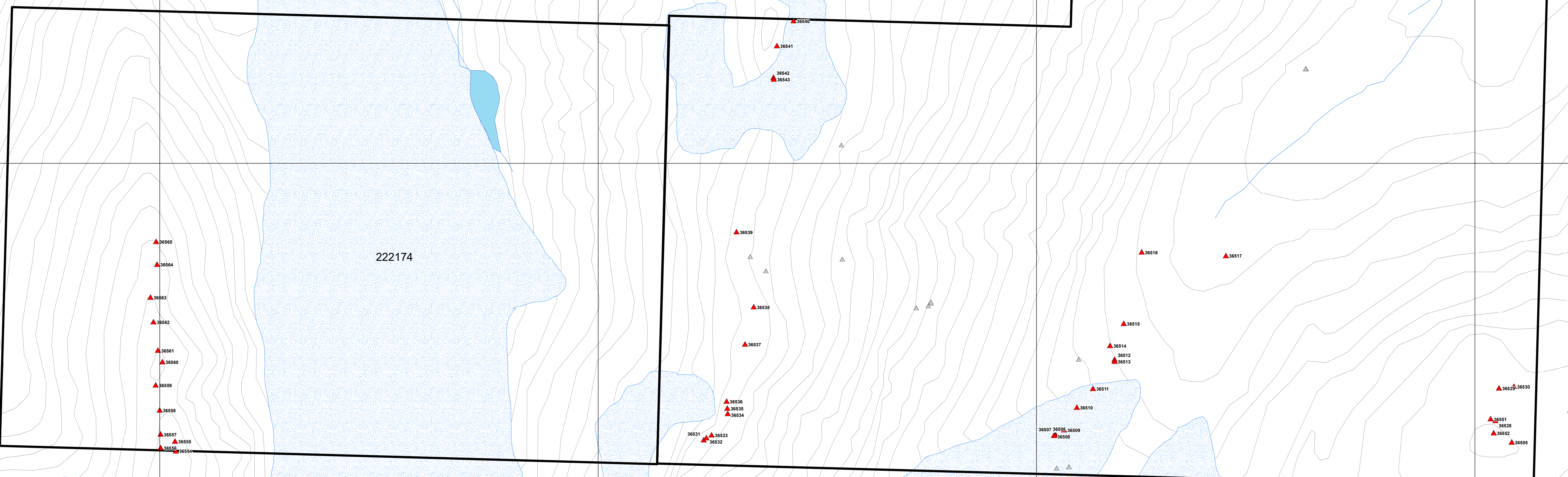
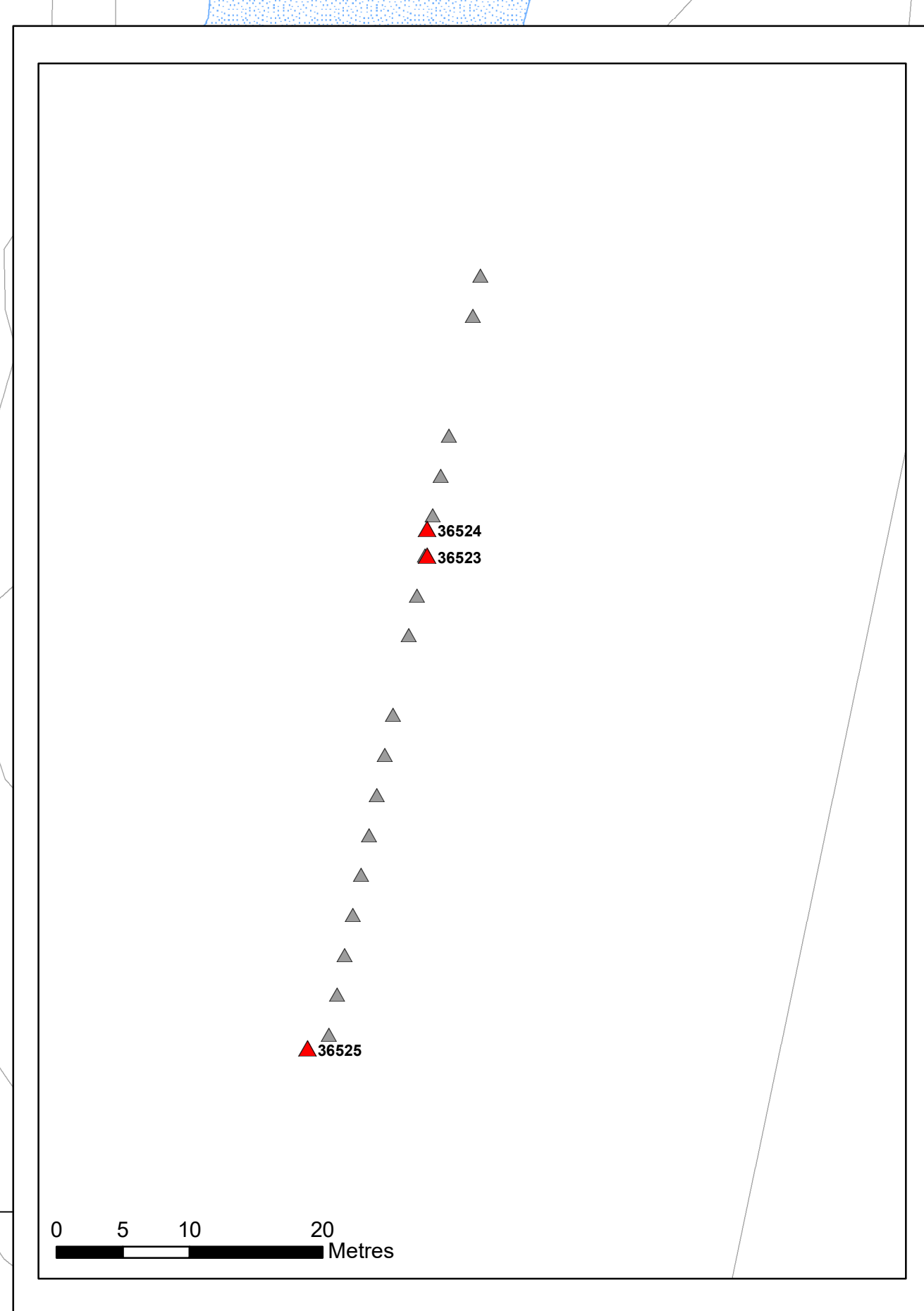
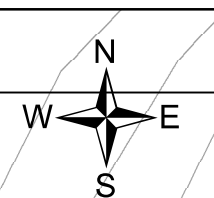
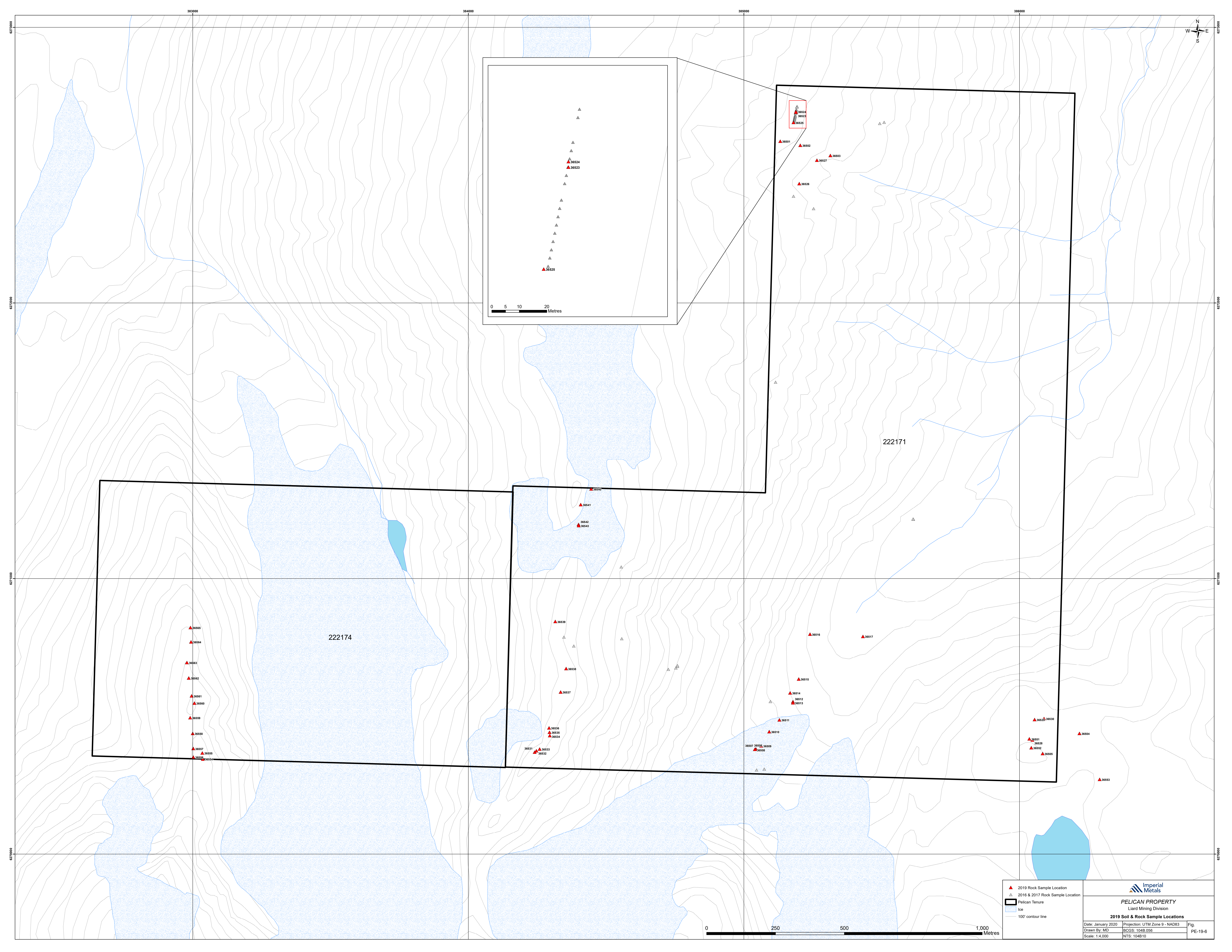
## METHOD DESCRIPTION:

1g sample split is digested with a modified Aqua Regia solution of equal parts concentrated HCl, HNO<sub>3</sub> and DI H<sub>2</sub>O for one hour in a hot water bath. Sample is made up to volume with dilute HCl in class A volumetric flasks. Sample splits of 0.4g or 0.1g may be necessary for very high-grade samples to accommodate analysis up to 100% upper limit.

Element	AQ370 Detection	AQ270 Detection	Upper Limits	Element	AQ370 Detection	AQ270 Detection	Upper Limits
Ag	2 g/t	0.5 ppm	300 g/t	Sc	-	0.5 ppm	
Al	0.01%	0.01%		Se	-	2 ppm	500 ppm
As	0.01%	5 ppm	10 %	Sr	0.001%	5 ppm	
Ba	-	5 ppm		Th	-	0.5 ppm	
Bi	0.01%	0.5 ppm		Ti	-	0.001%	
Ca	0.01%	0.01%		Tl	-	0.5 ppm	
Cd	0.001%	0.5 ppm		U	-	0.5 ppm	
Co	0.001%	0.5 ppm		V	-	10 ppm	
Cr	0.001%	0.5 ppm		W	0.001%	0.5 ppm	
Cu	0.001%	0.5 ppm	10 %	Zn	0.01%	5 ppm	20 %
Fe	0.01%	0.01%		<b>Limitations:</b> This digestion is only partial for some Cr and Ba minerals and some oxides of Al, Fe, Hf, Mn, Nb, S, Sn, Ta, Ti, W and Zr if refractory minerals are present.			
Ga	-	5 ppm					
Hg	0.001%	0.05 ppm					
K	0.01%	0.01%					
La	-	0.5 ppm					
Mg	0.01%	0.01%					
Mn	0.01%	5 ppm					
Mo	0.001%	0.5 ppm	20 %				
Na	0.01%	0.01%					
Ni	0.001%	0.5 ppm					
P	0.001%	0.001%					
Pb	0.01%	0.5 ppm	4 %				
S	0.05%	0.05%					
Sb	0.001%	0.5 ppm					

## **SECTION F: ILLUSTRATIONS**

<b>Plan Number</b>	<b>Title</b>	<b>Scale</b>
PE-19-1 (p.4)	BC Location Plan	1:8 000 000
PE-19-2 (p.5)	General Location Plan	1:260 000
PE-19-3 (p.6)	Mineral Tenures Plan	1:40 000
PE-19-4 (p.9)	Geology Plan	1:40 000
PE-19-5 (p.11)	2019 Work Zones	1:20 000
PE-19-6 (in pocket)	2019 Geochem Sample Locations	1:4 000
PE-19-7 (in pocket)	2019 Geochem Sampling: Au (ppb)	1:4 000
PE-19-8 (in pocket)	2019 Geochem Sampling: Cu (ppm)	1:4 000
PE-19-9 (in pocket)	2019 Geochem Sampling: Pb (ppm)	1:4 000
PE-19-10 (in pocket)	2019 Geochem Sampling: Zn (ppm)	1:4 000



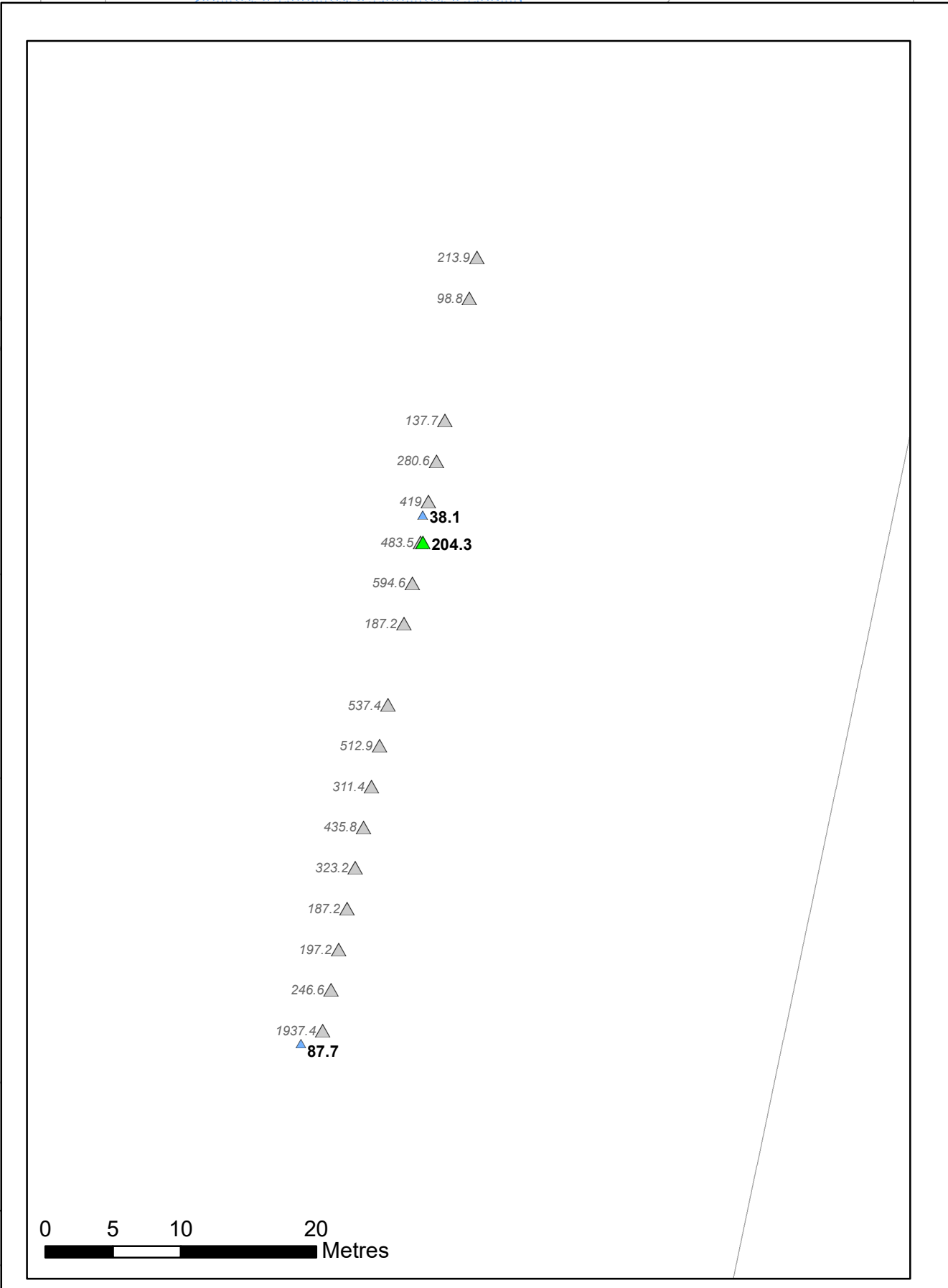
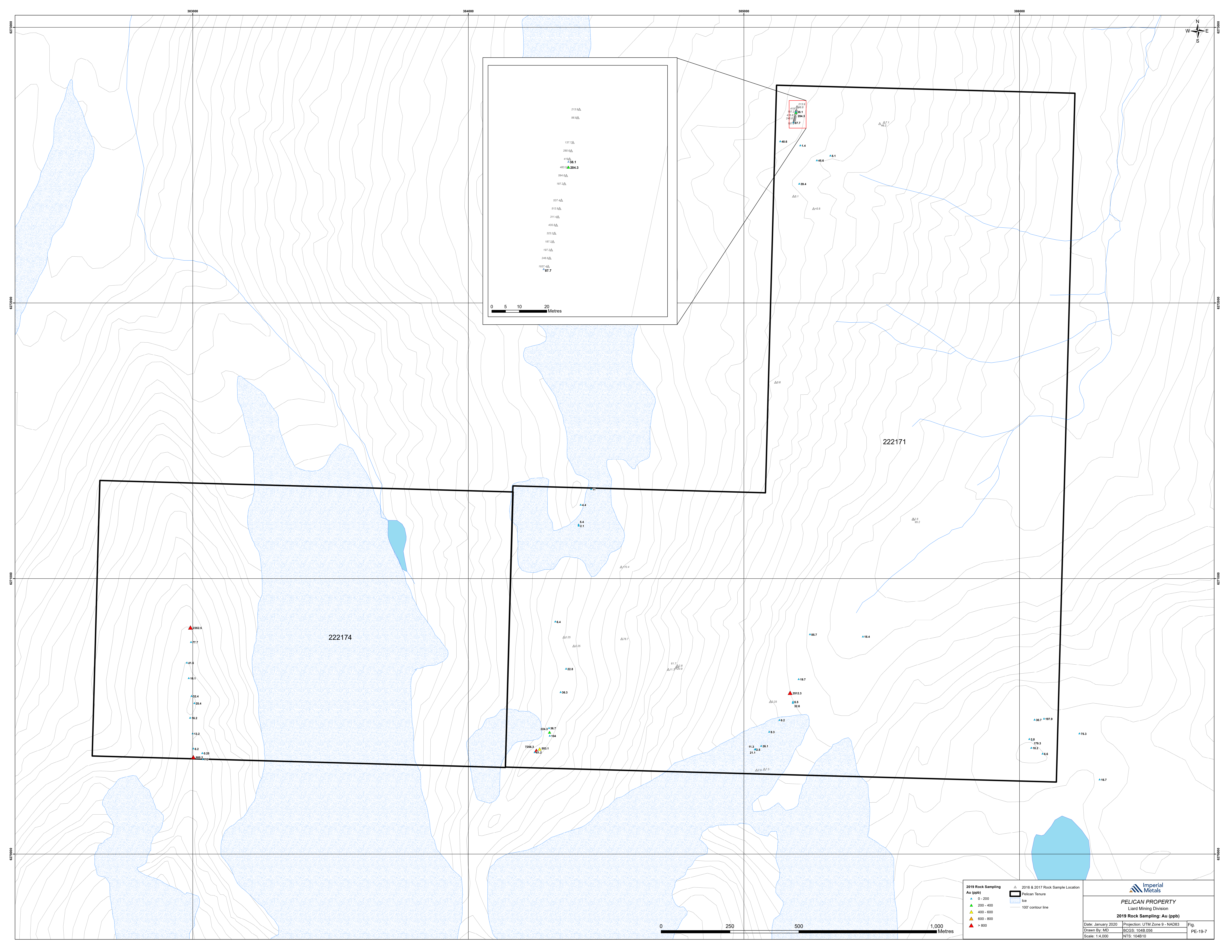
- ▲ 2019 Rock Sample Location
- △ 2016 & 2017 Rock Sample Location
- ▭ Pelican Tenure
- Ice
- 100' contour line



**PELICAN PROPERTY**  
Lizard Mining Division

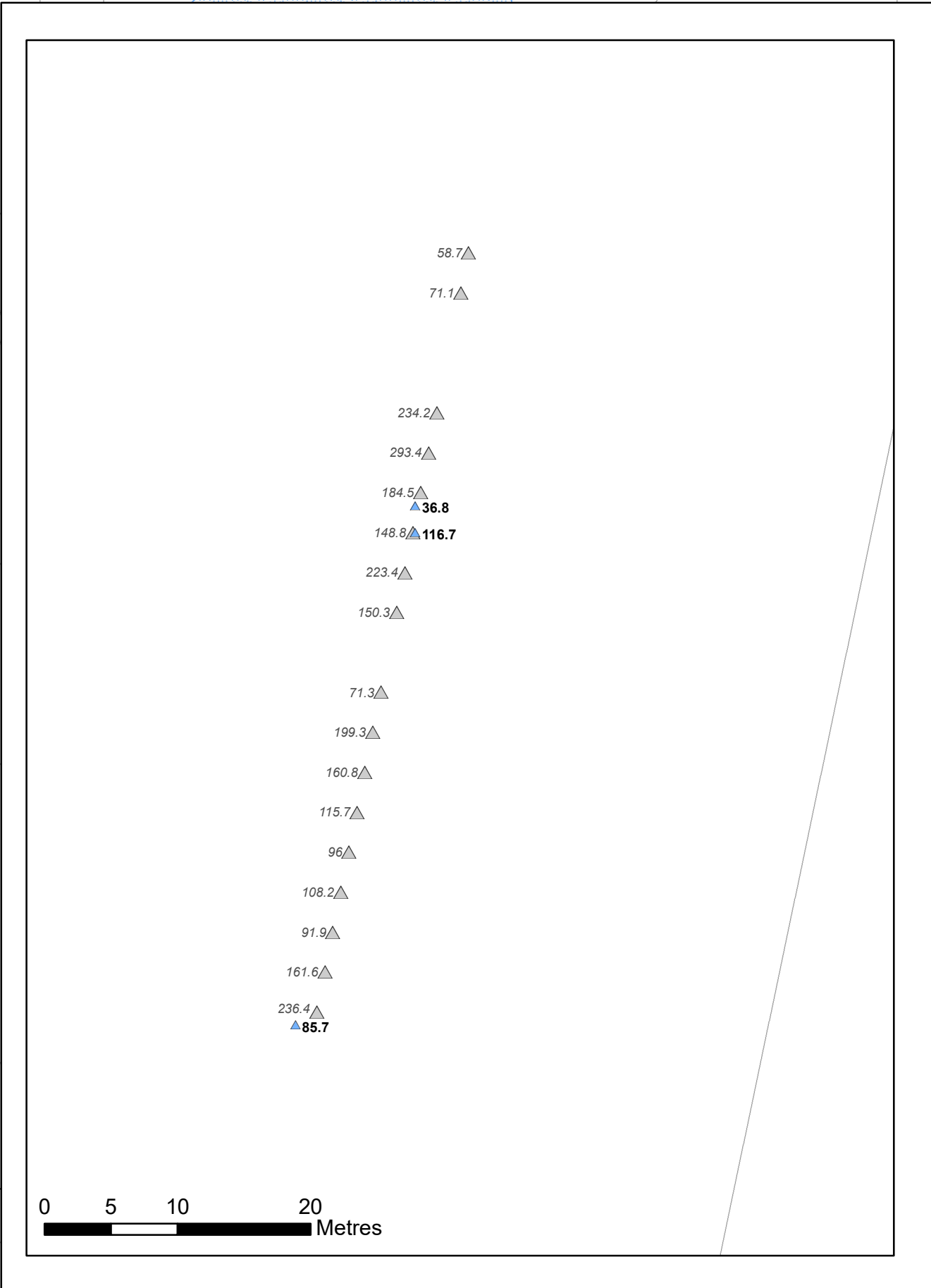
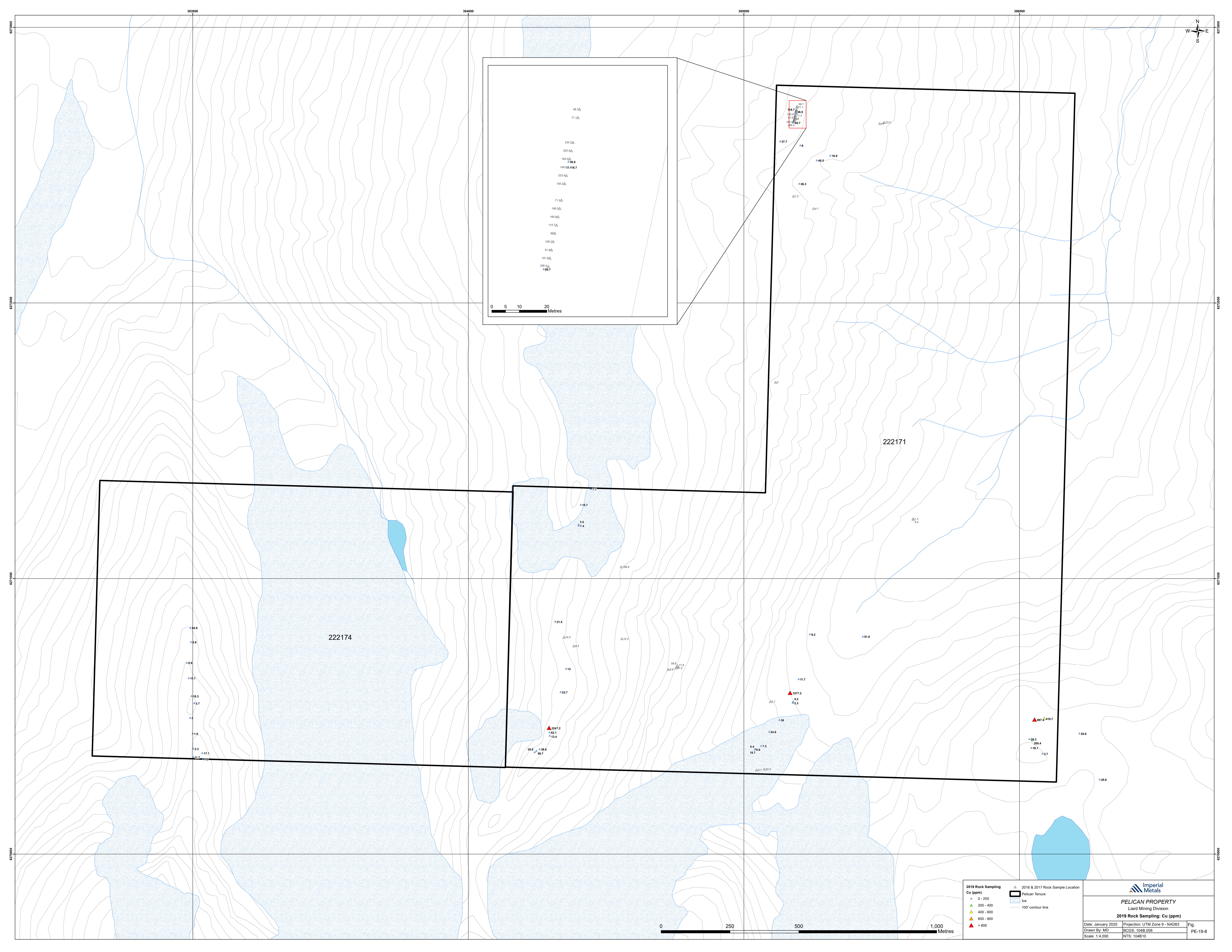
**2019 Soil & Rock Sample Locations**  
Date: January 2020 Projection: UTM Zone 9 - NAD83 Fig.  
Drawn By: MD BCGS: 1048.056  
Scale: 1:4,000 NTS: 104810 PE-19-6





<b>2019 Rock Sampling Au (ppb)</b> ▲ 0 - 200 ▲ 200 - 400 ▲ 400 - 600 ▲ 600 - 800 ▲ > 800	▲ 2016 & 2017 Rock Sample Location ■ Pelican Tenure ■ Ice --- 100m contour line	 <b>PELICAN PROPERTY</b> Lard Mining Division <b>2019 Rock Sampling: Au (ppb)</b> Date: January 2020 Drawn By: MD Scale: 1:4,000	Projection: UTM Zone 9 - NAD83 BCGS: 1048.066 NTS: 104810 Fig. PE-19-7
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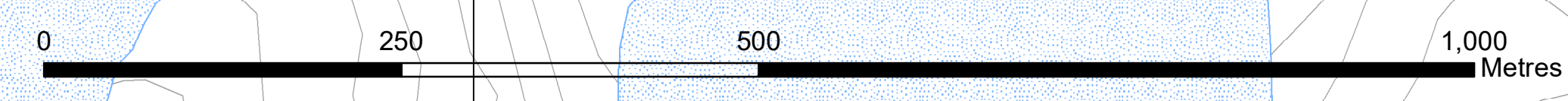


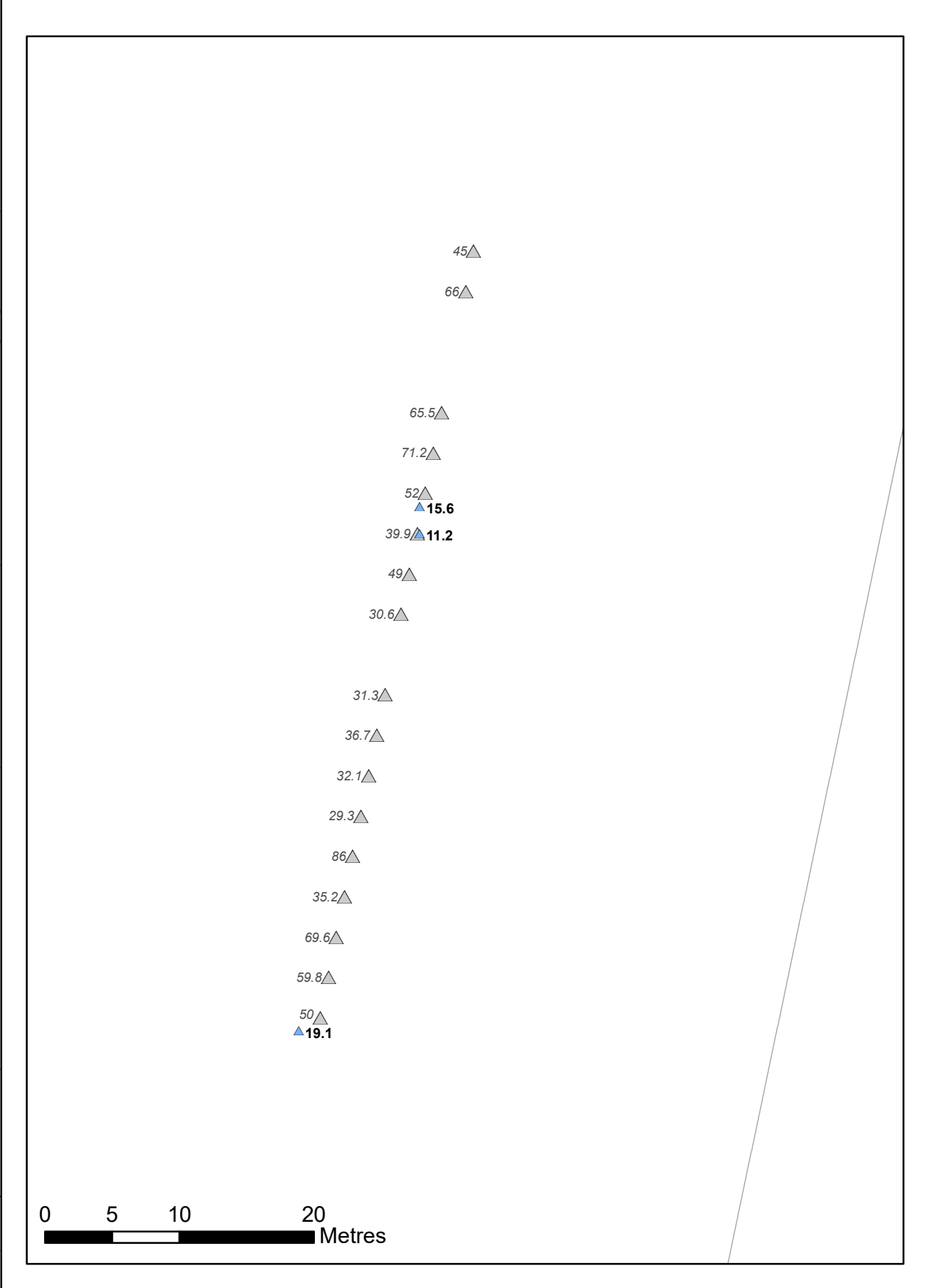
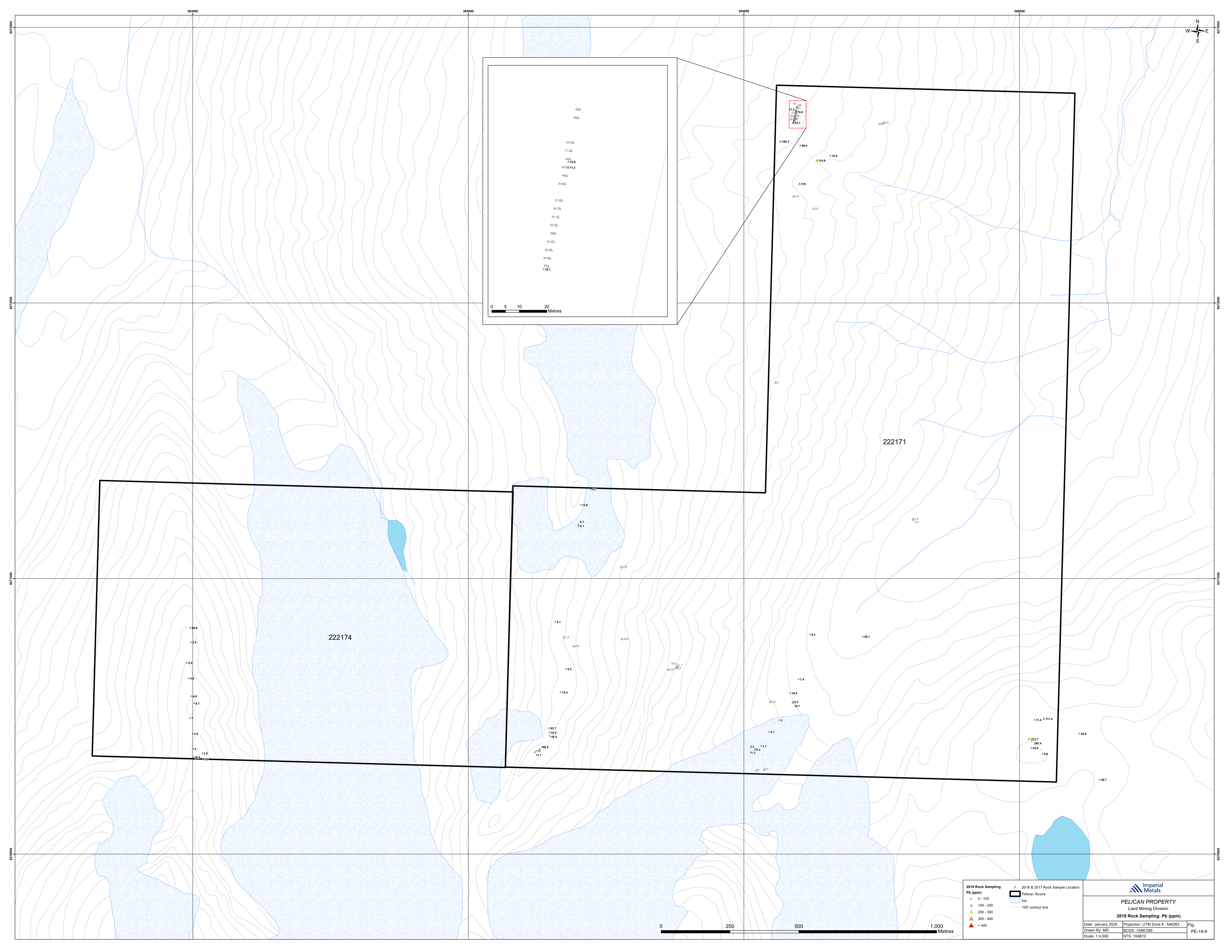


2019 Rock Sampling		2016 & 2017 Rock Sample Location	
▲	0 - 200	▲	2016 & 2017 Rock Sample Location
▲	200 - 400	■	Pelican Tenure
▲	400 - 600	■	Ice
▲	600 - 800	—	100' contour line
▲	> 800		

**PELICAN PROPERTY**
  
 Lizard Mining Division
   
**2019 Rock Sampling: Cu (ppm)**

Date: January 2020    Projection: UTM Zone 9 - NAD83    Fig.
   
 Drawn By: MD    BCGS: 1048.066    Scale: 1:4,000    NTS: 104810    PE-19-8





<b>2019 Rock Sampling Pb (ppm)</b> ▲ 0 - 100 ▲ 100 - 200 ▲ 200 - 300 ▲ 300 - 400 ▲ > 400	▲ 2016 & 2017 Rock Sample Location ■ Pelican Tenure ■ Ice --- 100' contour line	<p><b>PELICAN PROPERTY</b> Laird Mining Division 2019 Rock Sampling: Pb (ppm)</p>
Date: January 2020 Drawn By: MD Scale: 1:4,000	Projection: UTM Zone 9 - NAD83 BCGS: 1048.066 NTS: 1048/10	Fig: PE-19-9

