ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016 – 510 West Hastings Street,
Vancouver, B.C. V6B 1L8
Tel: (604) 688-2568 Fax: (604) 688-2578

ASSESSMENT REPORT

describing

PROSPECTING, HAND PITTING AND SOIL SAMPLING

Field work performed July 20 to August 8, 2019

at the

CONNAUGHT PROPERTY

CN 1-120	YC44099-YC44218	CN 217-301	YF53297-YF53381
125-162	YC44219-YC44256	NC 1-8	YC44412-YC44419
167-178	YC44257-YC44268	13-32	YC44220-YC44439
189-198	YC44269-YC44278	OM 1-48	YE60601-YE60648
199-202	YC62938-YC62941	TN 1-210	YF56591-YF56800

NTS 115N/15
Latitude 63°55'N; Longitude 140°48'W

in the

Dawson Mining District
Yukon Territory

prepared by
Archer, Cathro & Associates (1981) Limited

for

ATAC RESOURCES LTD.

By

J. Morton, P.Geo.

January, 2020

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INTRODUCTION

The Connaught property covers an extensive system of silver-lead-gold veins in the Sixty Mile placer gold camp of western Yukon. The property is 100% owned by ATAC Resources Ltd., with no underlying royalties.

This report describes prospecting, hand pitting and soil geochemical sampling conducted between July 20 and August 8, 2019 by Archer, Cathro & Associates (1981) Limited on behalf of ATAC. The author supervised the program and interpreted all results. The author's Statement of Qualifications appears in Appendix I. A statement of Expenditures is located in Appendix II.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Connaught property consists of 569 contiguous mineral claims, which are located in western Yukon at latitude 63°55' north and longitude 140°48' west on NTS map sheet 115N/15 (Figure 1). The property covers an area of approximately 7389 ha (73.89 km^2). The claims are registered with the Dawson Mining Recorder in the name of Archer Cathro, which holds them in trust for ATAC. Claim data are listed below while the locations of individual claims are shown on Figure 2.

Claim Name	Grant Number	Expiry Date*
CN 1-120	YC44099-YC44218	May 26, 2025
125-162	YC44219-YC44256	May 26, 2025
167-178	YC44257-YC44268	May 26, 2025
189-198	YC44269-YC44278	May 26, 2025
199-202	YC62938-YC62941	May 26, 2025
203-216	YC63043-YC63056	May 26, 2025
217-301	YF53297-YF53381	May 26, 2020
NC 1-8	YC44412-YC44419	May 26, 2025
13-32	YC44220-YC44439	May 26, 2025
OM 1-48	YE60601-YE60648	May 26, 2022
TN 1-210	YF56591-YF56800	May 29, 2020

* Expiry dates do not include 2019 work, which has been filed for assessment credit but has not yet been accepted.

The property lies 65 km due west of Dawson City, and can be reached by four wheel drive vehicle via the Sixtymile Road, which runs south from the Top of the World Highway. An extensive system of bush roads and trails exist on the property, but to reach them, the Sixtymile River must be forded. During spring runoff and following major storms, this ford is sometimes impassable. The Top of the World Highway extends west from Dawson City into Alaska. The highway is open during summer and fall when the ferry across the Yukon River is in service. Dawson City is situated 536 km by road north of Whitehorse, the Yukon's main supply centre, and is reached via the all-season Klondike Highway. Helicopters are based in Dawson City but were not utilized during the 2019 exploration program.

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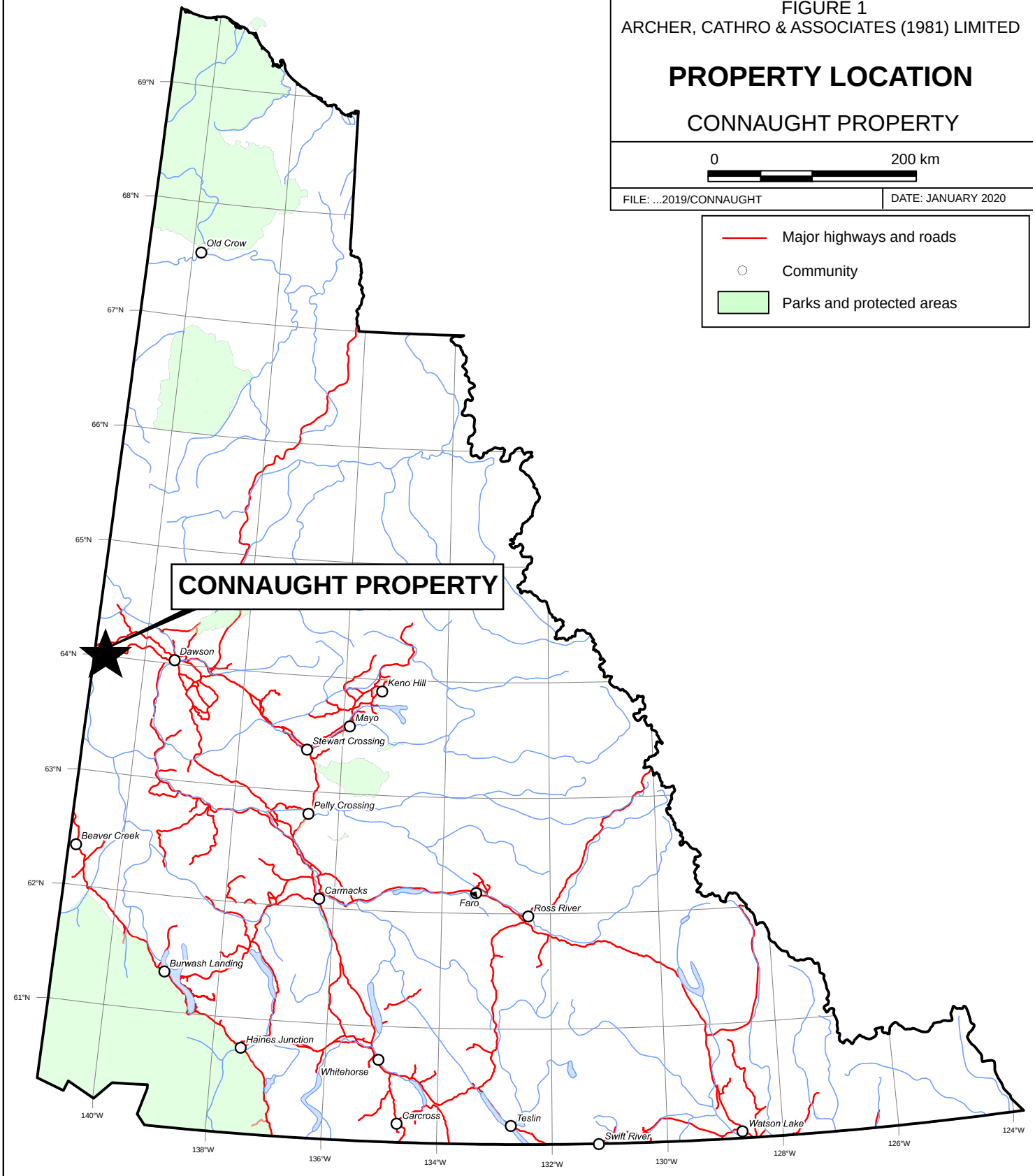
FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION

CONNAUGHT PROPERTY

0 200 km

FILE: ...2019/CONNAUGHT | DATE: JANUARY 2020



HISTORY AND PREVIOUS WORK

This section summarizes historical work in the Connaught property area. Figure 3 illustrates the location of the veins described in the following paragraphs.

Although silver-lead-gold veins were likely found in the Sixtymile area in the late 1890s, the first reported discovery was made by J. Lerner and M. Chefkoi in 1965. Their exploration consisted of "cold extraction" soil geochemistry and prospecting, which led to claim staking. Lerner and Chefkoi optioned the claims to A. Moisey, who later transferred them to the Sixtymile Mining Company Ltd.

In 1966 and 1967, Sixtymile Mining carried out bulldozer trenching and electromagnetic (EM) surveys. The trenching uncovered substantial lenses of massive galena on the No. 1 and No. 3 veins. In summer 1966, a total of 22.7 tonnes of hand sorted material was collected from open cuts on the No. 1 and No. 3 veins, and shipped to the Cominco smelter in Trail, British Columbia (Harper, 1967). This shipment averaged 2.1 g/t gold, 2297 g/t silver and 67.3% lead (Cholach, 1969).

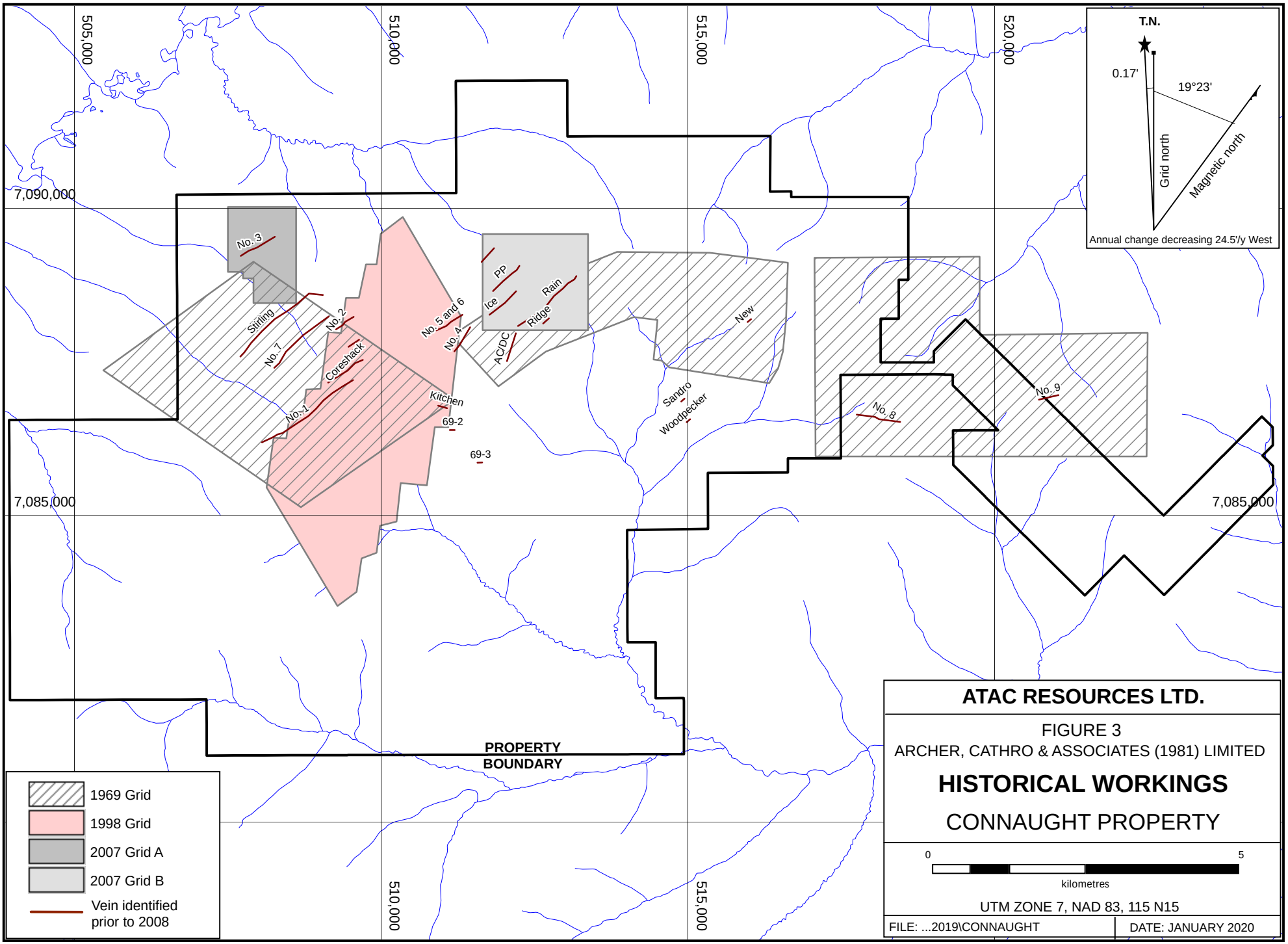
During 1968 and 1969, the property was held under option by Connaught Mines Ltd, which completed geological mapping, geochemical sampling, 35,200 m^3 of bulldozer trenching and 431.8 m of diamond drilling in eight holes. The 1969 soil sampling covered much of the property at that time and generated new silver-lead targets. It also identified strong copper response in irregular clusters away from the veins. Bulldozer trenching on the geochemical anomalies led to the discovery or delineation of more vein zones, the best of which were the No. 4, No. 7 and No. 8 (Archer, 1969). Six of the diamond drill holes tested the No. 1 Vein and the other two holes explored the No. 3 Vein. Most of the holes intersected variably mineralized vein structures (Cholach, 1969).

In 1976, Connaught Mines transferred its interest to A. Tottrup, who optioned the property to J. Lerner. That summer J. Lerner extracted an additional 218 tonnes of ore from shallow pits on the No. 1 and No. 3 veins and shipped it to the Asarco smelter in East Helena, Montana. Combined, the 1966 and 1976 shipments totalled 240.7 tonnes at an average grade of 1.0 g/t gold, 2228.5 g/t silver and 60% lead.

In 1979, A. Tottrup re-optioned the claims to Westley Mines Ltd. but there is no record of work by that company and the option was dropped after one year.

In 1981, J. Lerner staked sixteen additional claims. The entire claim block was then sold to Lougheed Resources Ltd., which cut trenches on the No. 1 Vein, totaling 4134 m^3. Due to an early snowstorm, these trenches were not mapped or sampled until 1982. The claims were held in good standing by Lougheed Resources for four years, but were allowed to lapse in 1986.

In spring 1987, Walhalla Exploration Ltd. re-staked the core of the property and optioned the claims to Croesus Resources Inc., which sub-optioned part of the claim block to Red Fox Minerals Ltd. and Kelan Resources Ltd. Aurum Geological Consultants Inc. was contracted to conduct an exploration program that consisted of geological mapping, geochemical sampling,


505,000
510,000
515,000
520,000
7,090,000
7,085,000
T.N.
0.17'
19°23'
Grid north
Magnetic north
Annual change decreasing 24.5'/y West
No. 3
Stirling
No. 7
No. 2
Coreshack
No. 1
No. 5 and 6
No. 4
Kitchen
69-2
69-3
PP
Ice
Ridge
Rain
AC/DC
New
Sandro
Woodpecker
No. 8
No. 9
PROPERTY BOUNDARY
1969 Grid
1998 Grid
2007 Grid A
2007 Grid B
Vein identified prior to 2008
ATAC RESOURCES LTD.
FIGURE 3
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
HISTORICAL WORKINGS
CONNAUGHT PROPERTY
0
5
kilometres
UTM ZONE 7, NAD 83, 115 N15
FILE: ...2019\CONNAUGHT
DATE: JANUARY 2020

geophysical surveys and bulldozer trenching (Price, 1988). The following year, Kelan Resources and Croesus Resources completed 315.8 m of diamond drilling in 10 holes. Three of the holes tested the No. 9 Vein, which is partly covered by the current OM claims, and extends north-northeast onto adjoining claims that are owned by another party (Figure 3). Another of the holes tested the No. 8 Vein and the remaining six holes explored beneath a magnetite skarn. Also in 1988, Red Fox Minerals drilled a total of 296.4 m in eight holes directed toward the No. 4 Vein. Results from the drilling were not considered to be encouraging and all of the claims were returned to Walhalla. The claims were subsequently allowed to lapse.

In 1998, 17363 Yukon Inc. re-staked the main showings, while P. Ledwidge staked the OM claims in the area of the No. 9 Vein, and the MUG claims over the headwaters of Mosquito Creek. That year, 17363 conducted minor prospecting and geochemical sampling before contracting Equity Engineering Ltd. to perform geological mapping and geochemical sampling across the known veins and showings (Harris, 1998).

In 1999, Ledwidge optioned the OM and MUG claims to Carta Resources Ltd., which enlarged the project by staking the TOM claims to the northeast. Later that year, Carta performed geological mapping and soil sampling on both claim blocks (King, 1999).

In January 2000, Carta sold all of its claims to H. Leo King and Associates Inc. Following this, H. Leo King staked the MI 1-10 claims at the eastern end of the project. The OM, TOM and MI claims, collectively referred to as the Ami property, were subsequently optioned to Grid Capital Corporation. In 2001, Grid Capital performed soil sampling, prospecting and limited geological mapping (Lewidge, 2001).

In 2003, Grid Capital conducted induced polarization (IP) surveying on the Ami property. This work was immediately followed by a five hole, 813.8 m diamond drill program, designed to test areas of strong chargeability with coincident, anomalous soil geochemistry. Only one of these holes (DDH-03-03) is located on the current Connaught property. It intersected wide zones of polymictic breccia, developed within quartz monzonite, hosting up to 20% pyrite and minor chalcopyrite. Grid Capital assayed portions of the hole for gold only, based on visual estimates of mineralization. It did not return any significant values (King, 2003), and the claims were subsequently allowed to lapse.

In 2005, R. Nordling staked the MAG claims to cover the No. 8 Vein and the magnetite skarn.

In spring 2006, the CN and NC claims were staked by ATAC, which immediately entered into a joint venture with Klondike Silver Corp. A property-wide helicopter borne VTEM survey was flown that summer.

In 2007, Klondike Silver preformed prospecting, geochemical sampling, excavator trenching and 556 m of diamond drilling in seven holes (Wengzynowski, 2008). Soil sampling was conducted on two grids to follow up anomalies from earlier soil geochemical and VTEM and magnetic surveys. Samples from both grids yielded positive results. Trenching led to the discovery of a new vein (Stirling Vein) and the formal recognition of another, previously identified structure (Core Shack Vein). Diamond drilling confirmed down dip continuity of mineralization at the

No. 1, No. 3, and No. 4 veins. The VTEM and magnetic surveys conducted over the property yielded numerous VTEM conductors and magnetic low anomalies. Following up a VTEM conductor resulted in the discovery of the Rain Vein. None of the historically known veins have EM responses. The total field magnetic response showed a striking donut shaped magnetic anomaly in the eastern part of the property. The positive magnetic anomaly surrounding a central magnetic low has been mapped as partially underlain by hornfelsed metasediments. This evidence suggests a localized, but strong late-stage or post-magmatic hydrothermal event that may be related to calc-alkalic porphyry copper-gold systems as well as high-level porphyry-related precious metal epithermal deposits.

In fall 2007, ATAC and Klondike Silver optioned Mag claims from R. Nordling.

In 2008, ATAC and Klondike Silver continued with geochemical sampling, excavator trenching and excavator stripping of veins. Four thousand soil samples were collected in three grids, and analyzed for 34 elements, but not for gold. Prospecting and excavator trenching extended some known veins and resulted in the discovery of the AC/DC, Ice, Rain and PP veins. Forty-one trenches were excavated on ten targets, with only 36 reaching bedrock due to permafrost. A total of 254 rock samples were analyzed. Parts of the No. 1, No. 7, No. 8, and Stirling veins were stripped in preparation for bulk sampling (Mann, 2010).

In 2009, a modest program of prospecting, geochemical sampling and excavator stripping was undertaken by Klondike Silver on behalf of the ATAC-Klondike Silver joint venture. The No. 1, No. 3, No. 8 and Stirling veins were stripped within existing excavations with the intention of improving access for future bulk sampling. Prospecting in areas of anomalous soils discovered or re-discovered several mineralized veins not previously documented, notably the 69-3 Vein from the 1969 exploration program and a northeasterly extension of the No.7 Vein. The Nordling option was terminated at the end of 2009 (Mann, 2010).

In 2011, Seafield Explorations Ltd. staked the KAM claims, which surrounded the Connaught property to the north, northeast and southwest. That year, Seafield optioned the claims, collectively referred to as the Fifty Mile Project, to 0908937 B.C. Ltd., which collected reconnaissance soil samples across the entirety of the project. This work included one line of soil samples collected across the southern part of the current Connaught property (Pautler, 2015). The claims located southwest of Connaught were subsequently allowed to lapse.

In 2012, ATAC purchased Klondike Silver's 50% interest in the Connaught claims.

In January 2015, ATAC staked the non-contiguous OM 1-48 claims, which covered a large portion of the historical Ami property. Later that year, ATAC conducted a 10 day program of soil sampling, prospecting and geological mapping. This work was designed to evaluate the high-level copper porphyry and gold vein potential in the eastern part of the property. Samples of altered and/or mineralized porphyry material returned encouraging results, including up to 36.8 g/t silver, 0.14% copper, 2.43% lead and 2.14% zinc, while prospecting up to 1000 m along strike of the No. 9 Vein returned 7.5 g/t gold, 1040 g/t silver and 15% lead (Burrell, 2016).

In April 2017, ATAC staked the CN 265 to 289 claims, to connect the Connaught claims to the OM claims, and the CN 290 to 301 claims, expanding the property to the south. That summer, ATAC performed grid and contour-controlled soil sampling in three areas of the property, which highlighted a previously unrecognized, broad, silver- and lead-in-soil anomaly (Burrell, 2018).

In 2017, Independence Gold Corp. staked the Stinger property, immediately southwest of Connaught. That year, Independence Gold performed four days of ridge-and-spur soil sampling, which identified an area of weakly elevated lead, silver and zinc in the southwest part of the property. Further soil sampling was recommended (Kienlen and Johnston, 2017).

In August 2018, ATAC purchased the Stinger property from Independence Gold Corp.

GEOMORPHOLOGY

The Connaught property is situated in the northern part of the Dawson Range, about 45 km southwest of the Tintina Trench. The Dawson Range features rounded ridges and low peaks, which represent the top of an ancient peneplane that has been deeply incised by dendritic drainages. Continental ice sheets did not cover the area but there is evidence of localized alpine glaciation. The property is drained by creeks that flow into the Sixtymile River, part of the Yukon River watershed.

Local elevations range from about 800 m alongside the Sixtymile River to 1500 m atop a ridge near the centre of the claim block. Terrain is subdued with gentle to moderately steep hillsides flanking broad, rounded hilltops. Outcrop is rare and is mostly confined to ridge crests and road cuts. In areas where drilling has been done, the rocks are typically weathered to about 30 m below surface (Cholach, 1969). Soil development is good but there has been considerable solifluction on hillsides.

Vegetation varies from mature spruce and poplar forests on the floor of the Sixtymile River valley to sparse, stunted spruce and buckbrush near ridge tops. North-facing slopes are often moss covered and permanently frozen, which presents a significant obstacle to soil sampling, trenching and road construction.

The climate in the Connaught property area is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. Temperatures typically vary from 20 °C in summer to -35 °C in winter. The property is mostly snow free from early June to late September; however snow can fall in any month.

REGIONAL GEOLOGY

Geology in the vicinity of the Connaught project was most recently mapped by Mortensen (1996) and put into broader context by Gordey and Makepeace (1999). Regional-scale geological maps appear on the Yukon Geological Survey (YGS) website, which is periodically updated when new information becomes available (YGS, 2019).
The Connaught property is located within Yukon-Tanana Terrane (YTT), as shown on Figure 4. YTT represents a continental arc that developed between Late Devonian and Permian time along

the ancient Pacific margin of North America. The segment of YTT containing the property is bounded by the Tintina Fault, 65 km to the northeast, and the Denali Fault, 170 km to the southwest. Both faults are steeply dipping transcurrent structures that have seen hundreds of kilometres of dextral strike-slip offset (Colpron and Nelson, 2011; Peter et al., 2007).

The geology in the vicinity of the Connaught project can be divided into two main domains: the southern domain, which is mostly underlain by the South Fiftymile Batholith; and the northern domain, which contains supracrustal rocks of the Nasina and Klondike Schist assemblages (Figure 5). The major lithological units are briefly summarized in the following paragraphs.

The Nasina Assemblage comprises Upper Proterozoic to Late Devonian and Mississippian fine grained, moderately to non-carbonaceous, quartz-muscovite-chlorite schist and quartzite with locally abundant interlayered mafic schist and amphibolite. Locally some higher grade metamorphic equivalent rocks are also present including coarse grained, garnetiferous biotite-quartz-muscovite schist and amphibolite. Lenses of recrystallized limestone are also present east of the project. The dominant foliation in the metamorphic sequences strikes 150° and dips 30° to the northeast.

The Klondike Schist Assemblage is largely Carboniferous to Upper Permian felsic schists of volcanic affinity. Micaceous quartzite and quartz-feldspar-muscovite-biotite schist are commonly interlayered with the felsic schist. This assemblage forms a klippen that sits atop the Nasina Assemblage.

The South Fiftymile Batholith is a large body of granitic orthogneiss that contains coarse potassium feldspar augen. This unit is considered to be part of the Late Devonian to Early Mississippian Grass Lakes Suite (ca. 357–365 Ma).

An east-trending string of Late Cretaceous plugs and stocks intrude the Nasina Assemblage and South Fiftymile Batholith along the ridge that underlies the project area, extending eastward off the claim group. These magnetite-bearing plutons consist of fine to medium grained, equigranular biotite-hornblende quartz monzonite and granodiorite. Regional magnetic data demonstrates that the plugs and stocks are probably apophyses of a much larger east- trending batholith sized body. A dyke that is likely related to this suite is seen in the high wall of the No. 3 Vein pit.

The Connaught project lies along the recently identified Sixtymile-Pika fault system (Sanchez et al, 2014). This northeast-trending structure, identified from a systematic re-interpretation of regional aeromagnetic data sets from Alaska and Yukon, is thought to have focused Late Cretaceous porphyry, skarn and epithermal style mineralization at many locations along its 150 km length (Image 1). A number of local-scale, northeasterly-trending normal faults are also present in the region, probably subsidiary to the larger scale structure. Twenty major vein structures have been identified on the property. These veins form two sets: one striking east-northeasterly and the other north-northeasterly. These probably occupy dilatant structures related to the Sixtymile-Pika Fault.

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FIGURE 4

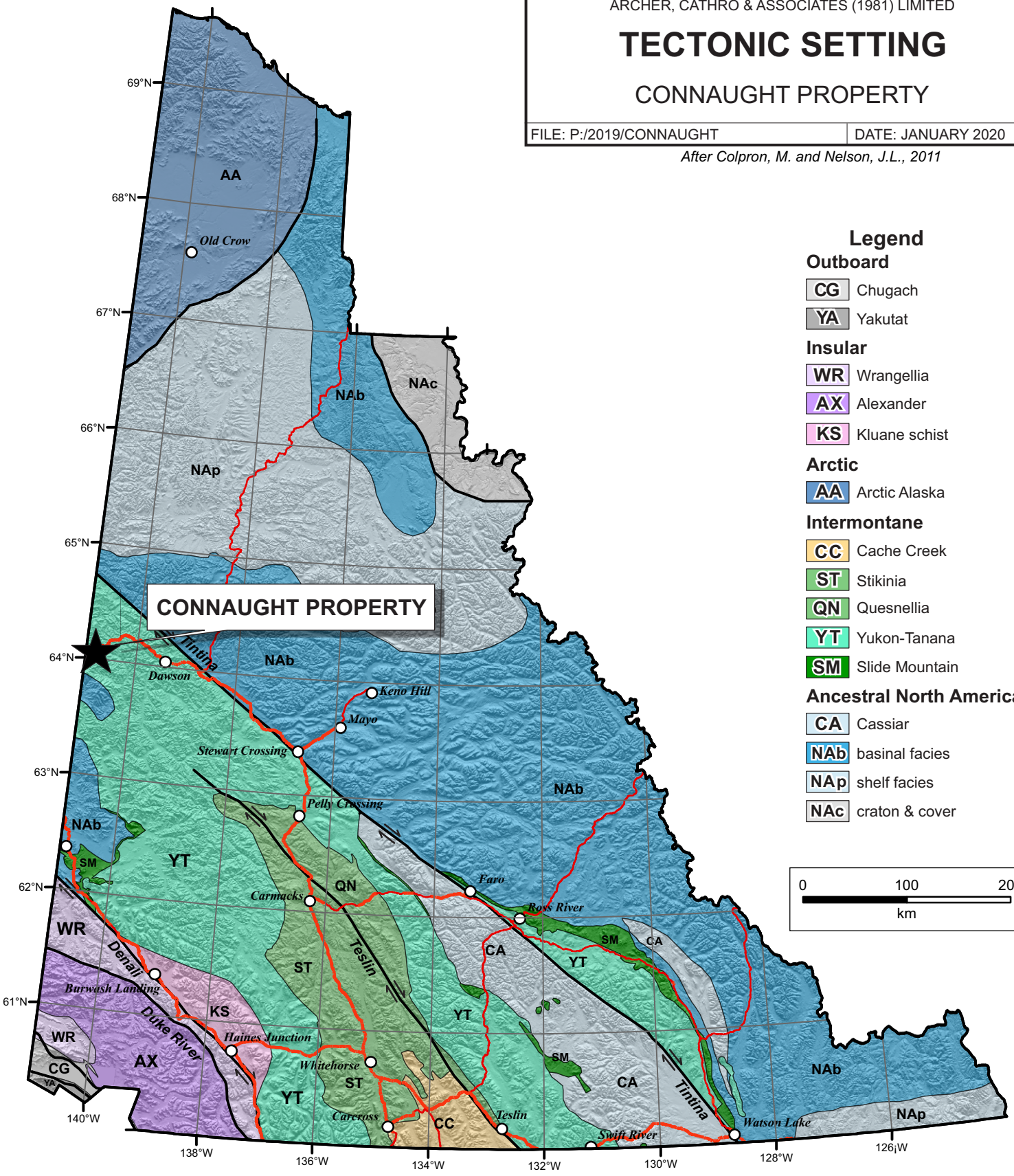
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TECTONIC SETTING

CONNAUGHT PROPERTY

FILE: P:/2019/CONNAUGHT | DATE: JANUARY 2020

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



Legend

Outboard

- CG Chugach
- YA Yakutat

Insular

- WR Wrangellia
- AX Alexander
- KS Kluane schist

Arctic

- AA Arctic Alaska

Intermontane

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

Ancestral North America

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

0 100 200 km

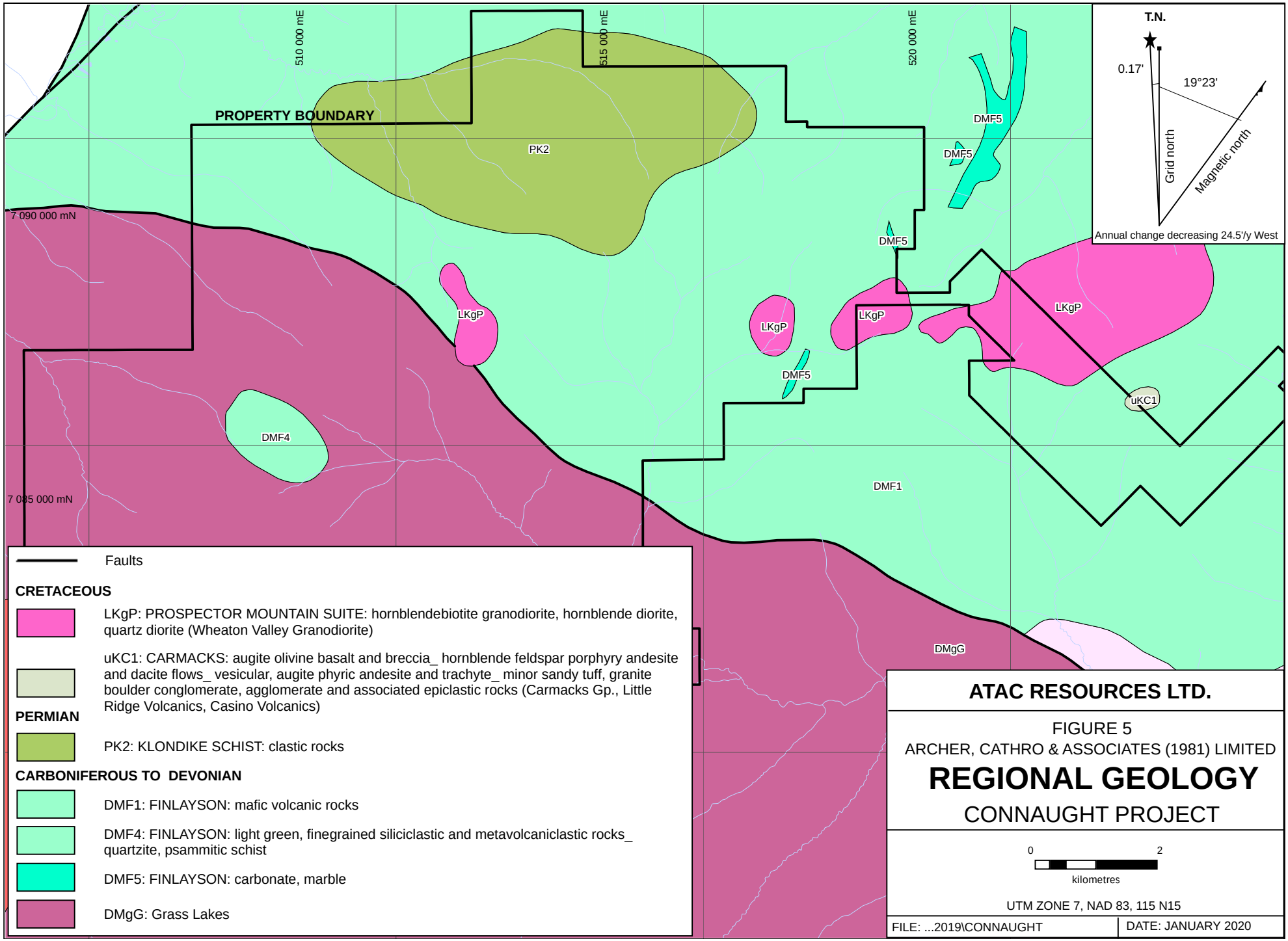

510 000 mE
515 000 mE
520 000 mE
7 090 000 mN
7 085 000 mN
PROPERTY BOUNDARY
PK2
DMF5
DMF5
DMF5
DMF5
LKgP
LKgP
LKgP
LKgP
uKC1
DMF4
DMF1
DMgG
T.N.
0.17'
19°23'
Grid north
Magnetic north
Annual change decreasing 24.5'/y West
Faults
CRETACEOUS
LKgP: PROSPECTOR MOUNTAIN SUITE: hornblendebiotite granodiorite, hornblende diorite, quartz diorite (Wheaton Valley Granodiorite)
uKC1: CARMACKS: augite olivine basalt and breccia_ hornblende feldspar porphyry andesite and dacite flows_ vesicular, augite phyric andesite and trachyte_ minor sandy tuff, granite boulder conglomerate, agglomerate and associated epiclastic rocks (Carmacks Gp., Little Ridge Volcanics, Casino Volcanics)
PERMIAN
PK2: KLONDIKE SCHIST: clastic rocks
CARBONIFEROUS TO DEVONIAN
DMF1: FINLAYSON: mafic volcanic rocks
DMF4: FINLAYSON: light green, finegrained siliciclastic and metavolcaniclastic rocks_ quartzite, psammitic schist
DMF5: FINLAYSON: carbonate, marble
DMgG: Grass Lakes
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FIGURE 5
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
REGIONAL GEOLOGY
CONNAUGHT PROJECT
0
2
kilometres
UTM ZONE 7, NAD 83, 115 N15
FILE: ...2019\CONNAUGHT
DATE: JANUARY 2020

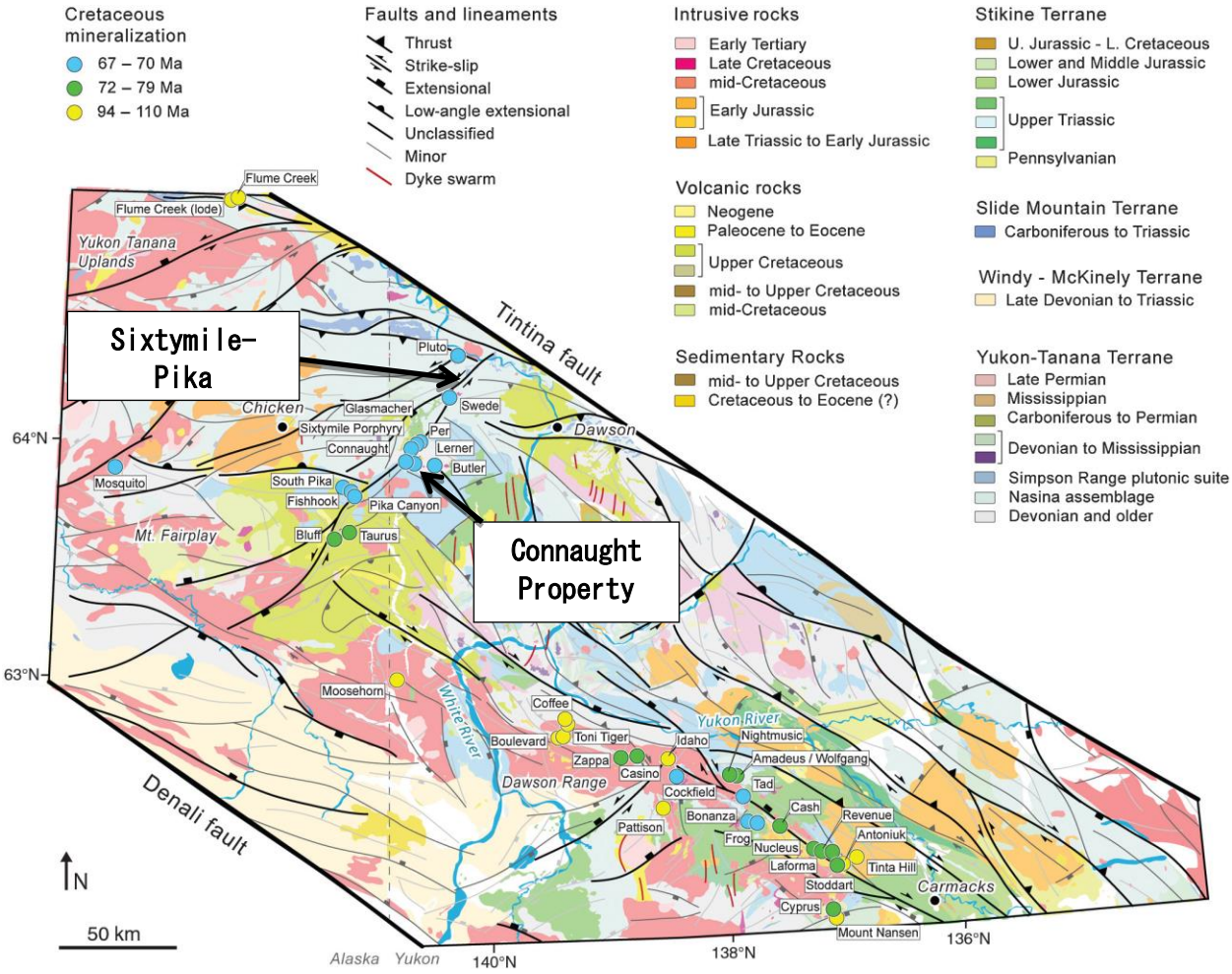


Image 1 – Regional fault systems and the spatial distribution of significant deposits and prospects of Cretaceous age (from Sanchez et al, 2014).

PROPERTY GEOLOGY

Only cursory property-scale mapping has been completed on the Connaught property, because outcrops are typically restricted to ridges/spines and road/creek cuts. Figure 6 illustrates recent property-scale mapping.

There has been little geological mapping conducted during previous exploration of the Connaught project. Recent property-scale mapping has demonstrated that the intrusive complex is much more extensive than shown on the existing maps derived from 1:50,000 mapping by Mortensen (1996). The intrusive complex consists of a granodiorite phase that is relatively resistant weathering and a quartz monzonite phase that is recessive weathering. The recessive weathering quartz monzonite phase is more common in the eastern half of the Connaught property. A third phase of highly felsic dykes, with minor graphic granite pegmatite is also present near the eastern edge of the Connaught property. The property-scale mapping identified a nearly continuous east-trending band of granitic rocks underlying the eastern part of the

Connaught property. The previous map showed a couple of nearly circular stocks of about one kilometre diameter in this area.

Most of the intrusive body is present on surface as felsenmeer boulders, with very little outcrop. The new mapping is consistent with the airborne magnetic signature of the project area.

Major north- and northeast-trending faults have been mapped offsetting the intrusive complex in the eastern part of the property, which suggests that the faults may be the youngest structures (Figure 5).

MINERALIZATION

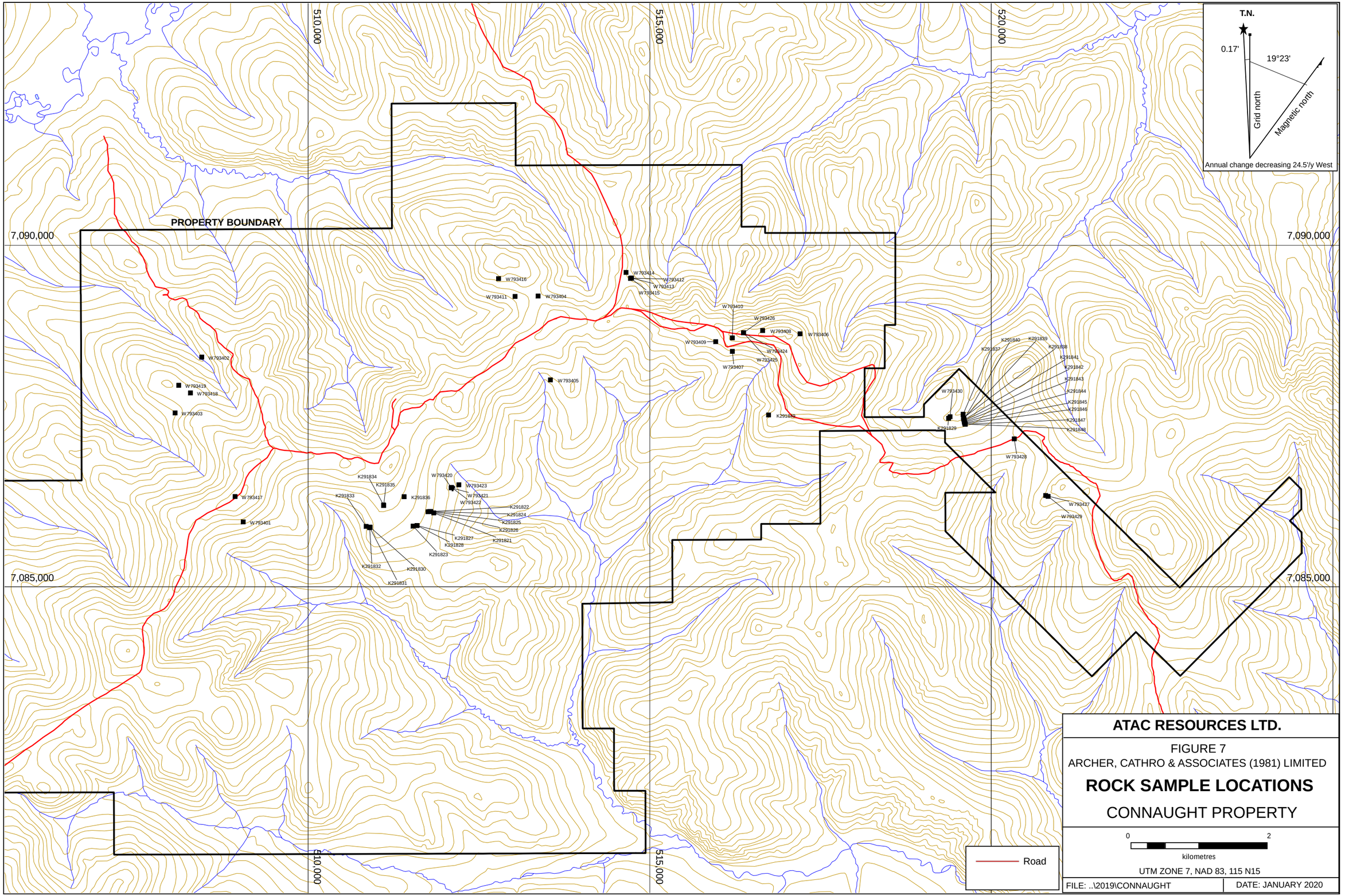
The Connaught property lies within the Tintina Gold Belt, a mineralized belt that comprises a 200 km wide by 1200 m long arc that extends from northern British Columbia to Alaska. The project area has mostly been explored as a high-grade silver-lead ± gold vein prospect modelled after the highly productive mines in the Keno Hill District, located about 250 km to the east. Some exploration has also been directed to skarn and porphyry copper mineralization on adjoining claims further to the east. Placer gold has been mined from many creeks in the area for over 100 years.

To date, 23 mineralized veins have been identified on the property (Figure 3). These vein zones are hosted by dilatent fault structures up to several metres in thickness. Individual veins have been traced for lengths in excess of 260 m and most are open along strike and down dip. Typical vein exposures consist of multiphase quartz that is variably mineralized with blebby to massive arsenopyrite + galena ± chalcopyrite ± covellite ± stibnite ± sulphosalts. Massive galena ± anglesite lenses are intermittently exposed in the core of some veins. The galena is usually coarsely cubic and contains scattered blebs of chalcopyrite. Anglesite weathered surfaces often exhibit botryoidal textures and some show shear textures. The veins and adjacent selvages are usually light coloured compared to the surrounding units and are often tinted green, because of oxidization of arsenopyrite to scorodite and sericitization of mafic minerals. Bleached phyllic- and argillic-altered halos extend up to six metres into adjacent wallrocks.

The No. 1, No. 3, No. 8, Stirling and Ice veins strike 050 to 094° and dip sub-vertically to 070° to the south, while the No. 2, No. 4, No. 5, No. 6, No. 7, Core Shack, PP and AC/DC veins strike 020 to 038° and dip steeply. The AC/DC vein has a unique orientation, with a strike of 020° and steep dip.

In 2019, ATAC collected a total of 63 rock samples from the property. The 2019 rock sample locations are plotted on Figure 7. Results from all programs since 2007 are illustrated thematically for gold, silver, lead, copper and zinc on Figures 8 to 12, respectively. Rock Sample Descriptions and Certificates of Analysis for the 2019 samples are provided in Appendices III and IV, respectively.

In 2019, rock sample sites were marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit. Rock sample preparation and multi-element analyses were carried out at ALS Minerals' laboratory in North



ATAC RESOURCES LTD.

FIGURE 7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ROCK SAMPLE LOCATIONS

CONNAUGHT PROPERTY

FILE: ..\2019\CONNAUGHT

DATE: JANUARY 2020

PROPERTY BOUNDARY

510,000

515,000

520,000

7,090,000

7,085,000

7,080,000

T.N.

0.17'

19°23'

Grid north

Magnetic north

Annual change decreasing 24.5'/y West

Gold-in-rock (ppb)

- ≥1,000 ≤10,900
- ≥500 <1,000
- ≥200 <500
- ≥100 <200
- >0 <100

Road

Historical vein

ATAC RESOURCES LTD.

FIGURE 8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD ROCK GEOCHEMISTRY

CONNAUGHT PROPERTY

0 2

kilometres

UTM ZONE 7, NAD 83, 115 N15

FILE: ...2019\CONNAUGHT

DATE: JANUARY 2020

PROPERTY BOUNDARY

510,000

515,000

520,000

7,090,000

7,085,000

7,080,000

T.N.

0.17'

19°23'

Grid north

Magnetic north

Annual change decreasing 24.5'/y West

Road

Historical veins

Silver-in-rock (ppm)

- ≥1,000 ≤4,050
- ≥500 <1,000
- ≥200 <500
- ≥100 <200
- ≥50 <100
- >0 <50

ATAC RESOURCES LTD.

FIGURE 9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SILVER ROCK GEOCHEMISTRY

CONNAUGHT PROPERTY

0 2

kilometres

UTM ZONE 7, NAD 83, 115 N15

FILE: ...2019\CONNAUGHT

DATE: JANUARY 2020

PROPERTY BOUNDARY

510,000

515,000

520,000

7,090,000

7,085,000

7,080,000

T.N.

0.17'

19°23'

Grid north

Magnetic north

Annual change decreasing 24.5'/y West

Historical veins

Road

Lead-in-rock (ppm)

≥100,000 ≤795,000

≥50,000 <100,000

≥20,000 <50,000

≥10,000 <20,000

>0 <10,000

ATAC RESOURCES LTD.

FIGURE 10

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

LEAD ROCK GEOCHEMISTRY

CONNAUGHT PROPERTY

0 1.653

kilometres

UTM ZONE 7, NAD 83, 115 N15

FILE: ...2019\CONNAUGHT

DATE: JANUARY 2020

510,000

515,000

520,000

PROPERTY BOUNDARY

7,090,000

7,085,000

7,080,000

T.N.

0.17'

19°23'

Grid north

Magnetic north

Annual change decreasing 24.5'/y West

Historical veins

Road

Copper-in-rock (ppm)

- ≥10,000 ≤16,400
- ≥5,000 <10,000
- ≥2,000 <5,000
- ≥1,000 <2,000
- ≥500 <1,000
- >0 <500

ATAC RESOURCES LTD.

FIGURE 11

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

COPPER ROCK GEOCHEMISTRY

CONNAUGHT PROPERTY

0 2

kilometres

UTM ZONE 7, NAD 83, 115 N15

FILE: ...2019\CONNAUGHT

DATE: FEBRUARY 2020

510,000

515,000

520,000

PROPERTY BOUNDARY

7,090,000

7,085,000

7,080,000

T.N.

0.17'

19°23'

Grid north

Magnetic north

Annual change decreasing 24.5'/y West

Historical veins

Road

Zinc-in-rock (ppm)

- ≥20,000 ≤72,400
- ≥10,000 <20,000
- ≥5,000 <10,000
- ≥2,000 <5,000
- >0 <2,000

ATAC RESOURCES LTD.

FIGURE 12

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ZINC ROCK GEOCHEMISTRY

CONNAUGHT PROPERTY

0 2

kilometres

UTM ZONE 7, NAD 83, 115 N15

FILE: ...2019\CONNAUGHT

DATE: JANUARY 2020

Vancouver, BC. Each sample was dried and fine crushed to better than 70% passing 2 mm, and then a 250 g split was pulverized to better than 85% passing 75 microns. The fine fraction was analyzed for 51 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS41). An additional 30 g charge was further analysed for gold by fire assay with atomic absorption spectroscopy finish (Au-AA24). Over limit values for silver, lead and zinc were determined by aqua regia digestion followed by inductively coupled plasma-atomic emission spectroscopy (AG-OG46, Pb-OG46 and Zn-OG46). For samples containing silver values greater than 1500 g/t, an additional over limit analysis was performed on a 30 g charge, using fire assay with a gravimetric finish (Ag-GRA21). For samples containing lead values greater than 20% an additional over limit analysis was performed on a 1 g charge, using a titration method (Pb-VOL70).

The following are brief descriptions of the thirteen mineral occurrences that have been identified on the property.

The **No. 1 Vein** has been delineated by 32 bulldozer trenches for roughly 200 m along strike but it is inferred to continue for an additional 1000 m based on anomalous lead-in-soil geochemistry. The surface trace is marked by a subtle linear gully that is evident intermittently along a talus covered, northwest facing slope. The host rocks are gently northeast dipping orthogneiss of the Grass Lakes Suite (formerly South Fiftymile Batholith) with narrow layers of coarse biotite-muscovite schist. The vein strikes northeast and has a sub-vertical dip.

Mineralization is dominated by pale green and yellow stained, sulphosalt-bearing quartz. This material is exposed in all trenches excavated across the vein and ranges in width from 30 cm to four metres. Four semi-massive to massive galena lenses occur in the core of the vein along a 125 m strike length, with widths ranging from zero to 30 cm.

The largest and most continuous of the galena lenses is exposed at the northeast end of the floor of the historical bulk sample pit. This lens is approximately 67 m long. The galena lens frequently bifurcates from a single wide band into multiple narrow stringers. The best assays from this lens were 2550 g/t silver and 10.90 g/t gold. The pit from which most of the bulk sample has a seven metre tall, cracked pit wall and is currently filled with water.

The **No. 2 Vein** has been exposed for a strike length of about 90 m along a 030° trend. It exhibits steep southerly dips averaging 76°. This vein has a composition similar to the No. 1 Vein but it has stronger wallrock alteration, with a bleached halo that extends up to six metres into the footwall rocks. Much of the trenching was done in 1987, with detailed mapping and sampling (Keyser, 1988). No excavator trenching has been done across this vein in recent years.

The **No. 3 Vein** is the most northwesterly vein on the property. It has been outlined by trenching for roughly 100 m along a 067° trend. It has steep southerly dips between 70 and 79°. The best mineralization is exposed at surface along a 10 m strike length where massive galena occurs with subordinate arsenopyrite and pyrite plus traces of covellite, in a multi-episodic quartz-sericite gangue. This portion of the vein is exposed in an approximately 8.5 m deep pit from which most of the historical bulk samples were taken. A five metre long massive anglesite and galena lens

that is up to 1.25 m wide can be traced along the pit floor. The mineralization is hosted within highly fractured, bleached and rusty weathering quartzite and quartz-muscovite schist, tentatively assigned to the Klondike Schist Assemblage. A narrow intermediate dyke is exposed in the pit wall.

A series of narrow galena-rich veinlets and stringers bifurcate from the main lens into the footwall strata. Some sulphosalt minerals are also disseminated in quartz-rich wallrocks adjacent to this vein. A channel sample across the No. 3 Vein returned 0.87 g/t gold, 2450 g/t silver and 48.8% lead over 1.25 m.

Prospecting by ATAC, approximately 90 m northeast along strike from the bulk sample pit, resulted in the discovery of massive galena ± anglesite and quartz-sulphosalt mineralized float alongside two old bulldozer trenches. Excavator trenches dug in 2007 into the floors of the old trenches exposed broad intervals of multi-coloured gouge but no quartz or metallic minerals. Chip samples collected along the base of the excavator trenches returned low values for silver, lead and gold. The gouge alteration could be an unmineralized portion of the vein but could also mark a thrust fault separating the Klondike Schist Assemblage from the underlying Finlayson Assemblage. This area has been stripped in preparation for bulk sampling.

The **No. 4 Vein** lies approximately two kilometres northeast of the No. 1 Vein and is exposed for 260 m along the northwestern side of an alpine knoll. It is hosted by orange weathering hypidiomorphic medium-grained Cretaceous granodiorite locally interfingered with quartz-feldspar orthogneiss of the Grass Lakes Suite (formerly South Fiftymile Batholith). The vein strikes 035° and dips steeply south, averaging 77°. It dominantly consists of multi-episodic quartz that is variably mineralized with sulphosalts. The vein is surrounded by strong clay alteration. In 1969, operators reported an "average assay" of 624 g/t silver and 9.34% lead across 1.22 m for a series of chip samples collected along the northeastern most 152.4 m long portion of the exposure (Price, 1989). These samples include peak grades of 2451 g/t silver and 34.90% lead across 0.73 m.

In recent years, excavator trenches were cut at equal intervals along an 80 m section at the southwestern end of the No. 4 Vein exposure. Trenches tested the footwall portion of the previously defined vein, which was mostly covered by talus, and attempted to explore the projected trace of the vein to the southwest. The trenches dug into the footwall of the vein zone discovered new mineralization in a splay off the main structure. The other trenches did not reach bedrock due to permafrost. One of the best intervals from this vein returned 1.295 g/t gold, 1550 g/t silver and 10.05% lead over 2.10 m. A chip sample from one of the new trenches yielded 0.115 g/t gold, 186 g/t silver and 2.44% lead across 1.0 m of strongly clay altered granodiorite mineralized with disseminated sulphosalts (Mann, 2010).

The **No. 5** and **6 veins** lie roughly on trend with the No. 1 Vein, about two kilometres to the northeast. Both veins are poorly exposed in old bulldozer trenches roughly 20 m apart. The No. 5 Vein trends east-northeast, and the No. 6 Vein trends east-southeast. Following this trend further northeast leads to the PP Vein.

The **No. 7 Vein** and the **Stirling Vein** are located approximately three kilometres west of the

No. 4 Vein. There are several mineralized veins present in this area. The southwesterly extension of the No. 7 Vein trend was followed onto the next ridge across the creek, and was examined by trenching. This work discovered two parallel veins that yielded peak values of 0.5 g/t gold, 177 g/t silver and 2.28% lead across 1.32 m.

The southern-most trench in the No. 7 Vein area exposed a quartz-sulphosalt vein with massive galena lenses up to 55 cm wide and 23 m long, within a vein zone that is approximately 50 m long and open in all directions. The vein is hosted within competent orthogneiss and strikes between 020° and 045° with a steep dip to the west at 80°. The northern-most galena lens is open along strike to the northeast where it projects beneath an access road. Channel and rock samples taken at various points along this vein returned 0.997 g/t gold, 3150 g/t silver and 64.0% lead over 0.40 m.

Recent prospecting successfully identified mineralized float associated with a broad multi-element soil anomaly along the No. 7 Vein trend. Two samples collected at least 500 m northeast of the trenches returned 3.98 g/t gold, 201 g/t silver and 30% lead, and 1.71 g/t gold, 1705 g/t silver, and 12.2% lead. The No. 7 Vein trend appears to have excellent potential in this area, as the two samples were found several hundred meters apart.

The **Stirling Vein** was found by deepening an old bulldozer trench situated approximately 400 m northeast of the No. 7 Vein. The Stirling Vein is composed of sulphosalt-bearing quartz with intermittent massive galena lenses up to 47 cm wide. The vein is exposed for a strike length of 22 m in tuffaceous quartz-feldspar-biotite-muscovite schist. It strikes 094° and dips steeply south at 70°. The mineralization is open along strike. Channel sampling returned 0.67 g/t gold, 2660 g/t silver and 64.5% lead over 0.47 m. Excavator trenching along strike revealed an extension of the mineralized structure; however, the vein was relatively narrow and weakly mineralized.

In 2019, a scorodite-stained rock sample, collected from a historical trench across the Stirling Vein, yielded 600 ppb gold, 117 g/t silver, 7.83% lead and >1% arsenic. An outcrop sample collected 530 m to the northeast, comprising an approximately 8 cm wide, scorodite-stained and arsenopyrite-bearing quartz vein, assayed 718 ppb gold, 0.58% lead and >1% arsenic.

The **Core Shack Vein** is exposed in old bulldozer trenches that were deepened with an excavator. This vein is one of a series of sulphosalt-bearing quartz veins that are marked by lead-in-soil geochemical anomalies in the area between the No. 1 and No. 2 veins. The excavator trenches exposed a 1.30 m wide quartz vein that is variably mineralized with yellow to green, arsenic and antimony secondary minerals, sulphosalts and minor coarse cubic galena. Chip samples collected across the vein zone returned peak values of 1.96 g/t gold, 1230 g/t silver and 15.0 % lead over 1.30 m.

The **No. 8** and **No. 9 veins** are located immediately adjacent to the Connaught property on claims owned by other operators. These veins are similar to the veins exposed on the Connaught property, but have a slightly higher silver-to-lead ratio. The No. 9 Vein also has a substantial percentage of crystalline barite within the vein. Prospecting on the Connaught property up to 1000 m along strike of the No. 9 Vein resulted in the discovery of three mineralized quartz vein

occurrences. Four composite grab samples were collected and returned peak values of 7.5 g/t gold, 1040 g/t silver and 15% lead (Burrell, 2016).

In 2019, a composite sample of rock collected along a road, about 500 m north-northwest of the No. 9 Vein, returned 1.96 g/t gold, 642 g/t silver, 6.24% lead, 0.19% copper and >1% arsenic. A description of the sample was not provided.

The **AC/DC Vein** is located alongside the main access road, approximately 1000 m east of the No. 4 Vein. The vein subcrop is exposed in an old bulldozer trench south of the main access road, as well as in four trenches, which has delineated it for a strike length of roughly 70 m on the north side of the road. Most of the bedrock is poorly exposed. The vein is up to one metre thick and contains comb quartz with small irregular masses of sulphosalts and weak to moderate, blebby and disseminated arsenopyrite. It is hosted in grey quartz-feldspar-biotite gneiss grading to quartzite. A selected rock sample of mineralized vein assayed 0.374 g/t gold, 12 g/t silver, 2.2% lead. Additional vein float was found 100 m south of the AC/DC Vein. A sample of this float returned 1.095 g/t gold, 8.41g/t silver and low lead.

The **Ice Vein** lies about 1000 m northeast of the No. 4 Vein on a northwest facing hillside. Mineralization consists of coarse cubic galena weathering to botryoidal anglesite or dense dark red limonite containing relict galena and/or crushed quartz. Yellow-green clay gouge is also present. The Ice Vein is hosted in grey quartz-feldspar-biotite gneiss. The vein strikes 049° and dips 80° to the southeast. The vein appears to be 70 cm wide with massive galena cores ranging from 20 to 25 cm wide. Chip sampling returned peak values of 2.88 g/t gold, 406 g/t silver and 4.0% lead over 1.20 m.

The **PP Vein** is located 1200 m north-northeast of the Ice Vein on a northeast facing hillside. Vein float containing galena and anglesite was discovered during a prospecting traverse that followed up soil geochemical anomalies. Five trenches were cut to locate the source of the float. A 15 cm wide galena-rich quartz-sulphosalt vein hosted in pale yellow quartzite and grey quartz-feldspar-biotite gneiss was identified. A chip sample collected from this vein returned 0.408 g/t gold, 259 g/t silver and 3.5% lead over 2.10 m. Grab samples of anglesite weathered galena float collected from the spoil piles of trenches suggest that an unexposed vein may exist to the north.

The **Rain Vein** is situated 1600 m northeast of the No. 4 Vein. It lies northwest downslope from the main access road. Trenches were cut across two strong geochemical anomalies. The Rain Vein is well exposed in one trench and is poorly exposed in two adjacent trenches. High values obtained from rock and soil samples taken from the area suggest the vein continues to the east. The Rain Vein is composed of quartz-poor sulphide bands with antimony-arsenic sulphosalts and galena cores and pyrite, arsenopyrite and possible stibnite margins. The sulphide-rich material is hosted in bright yellow clay gouge. The galena is coarsely cubic and weathers to anglesite on rims, with scorodite stains on some faces. The Rain Vein is hosted in quartz-feldspar-biotite gneiss. Select samples of well mineralized vein yielded values up to 2.45 g/t gold, 472 g/t silver, and 12% lead.

The **69-3 Vein** was exposed in bulldozer trenches during Connaught Mines' 1969 exploration program, but no assay values were reported at that time. Prospecting in recent years resulted in

the re-discovery of the vein in subcrop, and sampling of this material has returned values of up to 4.13 g/t gold, 406 g/t silver and 10.4% lead. The vein is found in an area of elevated multi-element soil geochemistry.

In 2019, a rock sample collected from a historical bulldozer trench returned 7.9 g/t gold, 1485 g/t silver, 43.96% lead, 0.22% copper and >1% arsenic. It comprised vuggy, limonitic quartz with semi-massive galena and anglesite. A series of rock samples collected from large boulders in a float train found 300 m to the northeast, yielded values of up to 7.32 g/t gold, 81.7 g/t silver, 0.89% lead and >1% arsenic.

The 69-3 Vein is significant because it is the only vein located on the southern side of the main ridge, which is underlain by the South Fiftymile Batholith. Rock samples of vein material, collected from the newly identified float train, were encapsulated within granodiorite wallrock.

The **Kitchen Vein** is located near the centre of the property under the current camp site, which was built in a bulldozer trench targeting a coincident multi-element soil geochemical anomalies identified. Mineralized float was collected within the trench and further to the east. Values up to 1.08 g/t gold, 783 g/t silver and over 20% lead were returned from the vein float.

The **69-2 Vein** is located about 400 m southeast of the Kitchen Vein and 700 m northwest of the 69-3 Vein, within a bulldozer trench dug in 1969 (Cholach, 1969). A grab sample of vein float from the trench returned 3.00 g/t gold, 1660 g/t silver and 14.2% lead. The mineralization is also elevated in antimony, bismuth and indium.

Rock samples collected from 2019 hand pits, located approximately one kilometre east of the 69-2 Vein, yielded strongly elevated values for silver (up to 1425 g/t), lead (up to 55.03%) and copper (0.77%). These samples likely represent the strike extension of either the 69-3, Kitchen or 69-2 veins.

The **Ridge Vein** is located in an old bulldozer trench near the main access road, a few hundred meters from the junction between the ridge road and the road to the Sixtymile River. Samples from the trench returned 1.825 g/t gold, 182 g/t silver and 1.635% copper. Mineralized float taken about 50 m west of the trench returned 0.915 g/t gold and 111 g/t silver. This vein is also strongly anomalous for bismuth (1090 ppm), thallium (1.92 ppm), and tellurium (17.75 ppm).

The **Sandro Vein** is a re-discovery of a lead- and arsenic-rich quartz vein in a historical bulldozer trench. The vein is not exposed in outcrop, but the trench lies entirely within weathered intrusive rocks. A sample from this vein returned 5.27 g/t gold with and high silver-to-lead ratios (Mann, 2010).

The **Matt Vein** straddles the Connaught and Mag property boundary, with the visible mineralization located on the Mag claims. The surface expression of this vein occurs as a narrow string of talus with a northeasterly-trend. The vein is located in an area with abundant felsic dykes.

The **Woodpecker** and **New** showings were discovered in 2010. Single cobbles of mineralized vein float were found from surface or hand pits in these areas (Mann, 2010). No source for the mineralized float was identified.

In 2019, a rock sample of oxidized quartz, collected 60 m east of the road, in the northern part of the property, returned 2.57 g/t gold, 157 g/t silver and 1.07% lead. This area was not previously known to host mineralization.

Cursory prospecting has been performed in the eastern part of the property to evaluate the copper porphyry potential. Rock samples collected near the porphyry target returned encouraging results indicative of high-level porphyry-style alteration and mineralization (Burrell, 2016). These samples returned background to strongly anomalous results for gold (up to 0.01g/t), silver (up to 36.8 g/t), copper (up 0.14%), lead (up to 2.43%) and zinc (up to 2.14%).

SOIL GEOCHEMISTRY

To date, approximately 45% of the Connaught property has been grid soil sampled. Tightly spaced grid soil samples are a useful exploration tool on the Connaught property. Historical and recent soil sample results have identified and delineated over 23 vein occurrences, in addition highlighting numerous other anomalies, which have not yet been followed up.

In 2019, a total of 1219 soil samples were collected for analysis. Figure 13 illustrates soil sample locations, while thematic results for gold, silver, copper, lead and zinc are shown on Figures 14 to 18, respectively. Analytical work was done by ALS Minerals, with sample preparation in Whitehorse, Yukon and geochemical analysis in North Vancouver, British Columbia. All samples were analyzed for gold using fire assay fusion and inductively coupled plasma-atomic emission spectrometry (Au-ICP21) and 51 other elements by four acid digestion and inductively coupled plasma-atomic emission spectroscopy (ME-MS41). Certificates of Analysis are provided in Appendix III. Table I below lists thresholds used to describe the soil geochemical anomalies.

Table I – Soil Geochemical Thresholds

Element	Anomalous Thresholds				
	Weak	**Moderate**	**Strong**	**Very Strong**	**Peak**
Gold (ppb)	≥ 10 < 20	≥ 20 < 50	≥ 50 < 100	≥ 100	233*
Silver (ppm)	≥ 0.5 < 1	≥ 1 < 2	≥ 2 < 5	≥ 5	44.1
Lead (ppm)	≥ 100 < 200	≥ 200 < 500	≥ 500 < 1000	≥ 1000	8390
Copper (ppm)	≥ 50 < 100	≥ 100 < 200	≥ 200 < 500	≥ 500	3350
Zinc (ppm)	≥ 100 < 200	≥ 200 < 500	≥ 500 < 1000	≥ 1000	2270

* Sample collected in 2019

Most of the 23 known vein occurrences have distinct soil geochemical expressions, which are oriented either east-northeasterly or north-northeasterly.

Previous soil samples collected from the eastern part of the property yielded large clusters (up to 500 by 800 m) and linear trends (up to 1000 m long) of coincident anomalous soil geochemistry for elements of interest. The cluster of high values is centred on a ridge where there is likely more residual material versus samples taken farther downslope.

In 2019, ATAC performed gridded soil sampling, in order to extend coverage southwest of two existing soil grids, and contour-controlled soil sampling, as reconnaissance in areas that previously had only limited soil sample coverage. This work identified a broad cluster of strongly to very strongly anomalous silver- and lead-in-soil values extending east-northeast from the area of the Rain Vein, which includes a smaller cluster of elevated gold soil geochemistry (up to 93 ppb).

The program also highlighted small clusters of anomalous silver and lead geochemistry in the areas of the Sandro and Woodpecker veins, as well as on a south-facing slope, one kilometre west of the No. 8 Vein, in an area of no known mineralization. The greatest gold-in-soil value is located approximately 600 m southeast of the No. 1 Vein. It exists as a single point anomaly, and is not significantly elevated in any of the other elements of interest.

DISCUSSION AND CONCLUSIONS

The Connaught project hosts an extensive system of silver-lead-gold veins, which are located at the head of the Sixtymile placer gold camp. Mineralized veins are associated with east-northeasterly- to north-northeasterly-trending structural zones that cut all pre-Cretaceous units. The source of mineralization has not yet been determined, but it was likely formed in a hydrothermal system related to Late Cretaceous plutonism. Porphyry copper and skarn occurrences in the area are probably associated with the same hydrothermal system.

Vein mineralogy is complex and consists of multiple episodes of quartz and sulphide emplacement. Weathering has resulted in a variety of oxide and carbonate minerals which can obscure the primary mineralization. Veins contain two main phases of mineralization: silver-lead-antimony and gold-arsenic-bismuth metal assemblages.

Further work on the property is strongly recommended, due to the continuing discoveries of silver and gold mineralization in previously unrecognized areas of the property. Historical data, including trench and drill data, should be integrated with ATAC's more recent data prior to further field work on the property. Following this, consideration should be given to testing the targets with excavator trenching, diamond drilling, rotary air blast or reverse circulation drilling. These techniques are considered to be the most cost effective tool for evaluating the soil geochemical anomalies, delineating the veins and testing the near-surface porphyry potential. Many soil anomalies remain untested and most veins are open along strike. Permafrost and deep overburden are significant impediments to effective trenching in some areas so careful planning should be done before selecting the piece of equipment. Ultimately, diamond drilling at systematic intervals along each vein structure will be required to provide structural geological data as well as locating the widest and richest sections of the veins.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

J. Morton, B.Sc., P.Geo.

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APPENDIX I

STATEMENT QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Jack Morton, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in Vancouver, British Columbia, hereby certify that:

1. I graduated from Simon Fraser University in 2013 with a B.Sc. in Earth Science.

2. From 2007 to present, I have been actively engaged in mineral exploration in Nevada, Yukon Territory, British Columbia, and Northwest Territories.

3. I am a Professional Geologist (P.Geo.) with the Association of Professional Engineers and Geoscientists of British Columbia (License Number 45807).

4. I supervised and participated in the exploration program and interpreted all data resulting from this work.

J. Morton, B.Sc., P.Geo.

APPENDIX II

STATEMENT OF EXPENDITURES

Statement of Expenditures
Connaught Property
January 17, 2020

Labour

Employee	Job Description	Hours	Time Period	Rate/hr	Total
Andrew Carne	Sr. Engineer	18.5	June 2019 - November 2019	$ 96.00	$ 1,776.00
Hugh Fordyce-Fortune	General Labour	144	June 2019 - November 2019	$ 49.00	$ 7,056.00
Jack Morton	Sr. Geologist	8	June 2019 - November 2019	$ 98.00	$ 784.00
Jessie Thomson-Gladish	General Labour	160	June 2019 - November 2019	$ 66.00	$ 10,560.00
Kelson Willms	Geologist	48	June 2019 - November 2019	$ 85.00	$ 4,080.00
Liz Smith	Logistics and Support	11	June 2019 - November 2019	$ 85.00	$ 935.00
Matt Van Loon	General Labour	48	June 2019 - November 2019	$ 80.00	$ 3,840.00
Sarah Shonkier	Geologist	72	June 2019 - November 2019	$ 53.00	$ 3,816.00
Wayne Schneider	Maintenance	10	June 2019 - November 2019	$ 99.00	$ 990.00
					$ 33,837.00

Report Writing Costs (Max 10% of $82,482.25)

Employee	Job Description	Hours	Time Period	Rate/hr	Total
Ryan Burke	Geologist	22	December 2019-January 2020	$ 74.00	$ 1,628.00
Jack Morton	Sr. Geologist	40	January 2020	$ 98.00	$ 3,920.00
Liz Smith	Final Report Prep	4	January 2020	$ 85.00	$ 340.00
Scott Newman	Mapping	8	December 2019- Janary 2020	$ 71.00	$ 568.00
					$ 6,456.00

Expenses

Field room and board	69 mandays	$ 100.00	/per day	$ 6,900.00
Whitehorse room and board	6 mandays	$ 180.00	/ per day	$ 1,080.00
Kubtoa RTV Rental				$ 2,000.00
AC Truck Rental				$ 2,167.50
AC Trailer Rental				$ 1,350.00
ALS Chemex, as attached				$ 35,147.75
				$ 48,645.25

Total 2019 expenditures	$ 88,938.25
Cost per sample	$ 69.59

APPENDIX III

ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions Property: Connaught

Sample Number:	K291821	Date Collected:	2019-08-05	UTM:	511841	mE	Nad83, Zone 7
Elevation:	1178 m	Sampler:	Matt Van Loon	UTM:	7086082	mN	

Comments: Vuggy, pitted quartz with blebs of arsenopyrite throughout. Limonite present in pits. Taken in float from a 30x40cm boulder. Near a soil anomaly

Sample Number:	K291822	Date Collected:	2019-08-05	UTM:	511757	mE	Nad83, Zone 7
Elevation:	1178 m	Sampler:	Matt Van Loon	UTM:	7086099	mN	

Comments: Vuggy, pitted quartz in float. Float train running at approx 105 degrees. Sample contains arsenopyrite, and lots of limonite.

Sample Number:	K291823	Date Collected:	2019-08-05	UTM:	511539	mE	Nad83, Zone 7
Elevation:	1196 m	Sampler:	Matt Van Loon	UTM:	7085889	mN	

Comments: Vuggy quartz within a historic dozer trench. Massive galena and anglesite throughout rock. Limonite within pits.

Sample Number:	K291824	Date Collected:	2019-08-04	UTM:	511799	mE	Nad83, Zone 7
Elevation:	1176 m	Sampler:	Sarah Shoniker	UTM:	7086101	mN	

Comments: Granodiorite with alteration rim and visible sulphides. Found within lower half of pit as pieces of float. Boulder pile of granodiorite/ granite, light grey weathering, salt and pepper fresh medium-coarse grained. Some rust brown weathering especially lower down in pit (0.6m from surface). Visible pyrite in places in some samples at depth with alteration rims/ haloes around intrusive. Weathers orange-brown when sulphides present. Matrix ranges from light grey - purple-brown - grey-green depending on amount of alteration. Quartz can be smokey and well developed as well as feldspars and biotite. Pit is approximately 1m x1m x1m

Sample Number:	K291825	Date Collected:	2019-08-05	UTM:	511790	mE	Nad83, Zone 7
Elevation:	1176 m	Sampler:	Sarah Shoniker	UTM:	7086103	mN	

Comments: Sample taken prospecting around pit. Light grey-yellow brown weathering, yellow-green-brown fresh vein rock with alteration from sulphides. Shows banding/ layering within rock.

Rock Sample Descriptions Property: Connaught

Sample Number:	K291826	Date Collected:	2019-08-05	UTM:	511779	mE	Nad83, Zone 7
Elevation:	1177 m	Sampler:	Sarah Shoniker	UTM:	7086101	mN	

Comments: Also found while prospecting around Pit 6. Similar to K291825 but with visible arsenopyrite and pyrite. More green alteration within rock. Possible calcite? Shows contact with granodiorite and banding within vein. Quartz crystals grow quite large and subhedral, growing into middle of rock from contact. Arsenopyrite also seen along contact edges. Aligns ~105 degrees with K291825.

Sample Number:	K291827	Date Collected:	2019-08-05	UTM:	511596	mE	Nad83, Zone 7
Elevation:	1194 m	Sampler:	Sarah Shoniker	UTM:	7085898	mN	

Comments: Granodiorite with visible sulphides found in some float bits. Weathers rust-brown and is light brown- salt and pepper fresh. Similar to Pit 5 and 6 rock type. Sample taken within pit shows some visible sulphides and slight magnetism.

Sample Number:	K291828	Date Collected:	2019-08-05	UTM:	511596	mE	Nad83, Zone 7
Elevation:	675 m	Sampler:	Sarah Shoniker	UTM:	7085898	mN	

Comments: Quartz vein with anglasite. Rust brown- yellow-green weathering, heavily altered fresh quartz. Vuggy texture with large individual quartz grains within. Sample found while prospecting around Pit 5 and within ~100m of an old trench where visible galena was found. Aligns roughly 90 degrees with sample taken from trench.

Sample Number:	K291829	Date Collected:	2019-08-06	UTM:	519376	mE	Nad83, Zone 7
Elevation:	1058 m	Sampler:	Sarah Shoniker	UTM:	7087466	mN	

Comments: Rock 1: brown-grey - rust brown weathering tan brown- brown-grey fresh medium-coarse grained granodiorite. Does have large (~0.1- 2mm) fresh white muscovite crystals seen in hand specimen. Pieces with mica visible also have smokey grey-brown quartz layer on rock as well. Grains have no set orientation and mica is scattered throughout. Rocks were seen at ~0.65m depth and greater. Rock 2: grey-green weathered green-brown-grey fresh fine-medium grained pelitic schist (?) (possibly mafic intrusive??) with banding and very fine sulphides present (pyrite). Sulphides follow foliation plane and are very small (~0.05-0.1mm). Pit size was approximately 0.70m x1m x1m

Sample Number:	K291830	Date Collected:	2019-08-05	UTM:	510909	mE	Nad83, Zone 7
Elevation:	630 m	Sampler:	Matt Van Loon	UTM:	7085874	mN	

Comments: Near soil sample I064314. Rusty, pitted quartz with some biotite and pyrite. Quartz is clay altered. In float however source is likely near

Rock Sample Descriptions Property: Connaught

Sample Number:	K291831	Date Collected:	2019-08-05	UTM:	510904	mE	Nad83, Zone 7
Elevation:	632 m	Sampler:	Matt Van Loon	UTM:	7085867	mN	

Comments: Heavily pitted and clay altered quartz. Pits are likely from weathered out pyrite and they contain limonite. Taken near soil sample I064314

Sample Number:	K291832	Date Collected:	2019-08-05	UTM:	510903	mE	Nad83, Zone 7
Elevation:	634 m	Sampler:	Matt Van Loon	UTM:	7085865	mN	

Comments: Rusty quartz with pyrite pitting in float. Near soil sample I064314

Sample Number:	K291833	Date Collected:	2019-08-05	UTM:	510852	mE	Nad83, Zone 7
Elevation:	636 m	Sampler:	Matt Van Loon	UTM:	7085885	mN	

Comments: Rusty, pitted quartz with pyrite disseminated throughout. Limonite pitting prevalent. In float.

Sample Number:	K291834	Date Collected:	2019-08-05	UTM:	511105	mE	Nad83, Zone 7
Elevation:	m	Sampler:	Matt Van Loon	UTM:	7086198	mN	

Comments: Pitted quartz within a hand pit at soil sample I064027. Pits are filled with limonite. This was the only piece of quartz found within the hand pit. The rest oft hr rock was granodiorite.

Sample Number:	K291835	Date Collected:	2019-08-05	UTM:	511108	mE	Nad83, Zone 7
Elevation:	637 m	Sampler:	Matt Van Loon	UTM:	7086190	mN	

Comments: Pitted quartz in float near a soil anomaly. Limonite within. No visible sulphides.

Sample Number:	K291836	Date Collected:	2019-08-05	UTM:	511407	mE	Nad83, Zone 7
Elevation:	638 m	Sampler:	Matt Van Loon	UTM:	7086320	mN	

Comments: Pitted, rusty quartz in float. Taken near a high soil. No sulphides seen within.

Sample Number:	K291837	Date Collected:	2019-08-06	UTM:	519589	mE	Nad83, Zone 7
Elevation:	1038 m	Sampler:	Matt Van Loon	UTM:	7087525	mN	

Comments: Altered/cooked granite with pitting. No biotite left in grano.Sample taken in a historic trench within a moly in soil anomaly

Rock Sample Descriptions Property: Connaught

Sample Number:	K291838	Date Collected:	2019-08-06	UTM:	519592	mE	Nad83, Zone 7
Elevation:	1052 m	Sampler:	Matt Van Loon	UTM:	7087473	mN	

Comments: Composite sample of rocks on historic trench floor witin a moly in soil anomaly. Lightly altered granodiorite in float. No bedrock and no sulophides in sample

Sample Number:	K291839	Date Collected:	2019-08-06	UTM:	519596	mE	Nad83, Zone 7
Elevation:	1055 m	Sampler:	Matt Van Loon	UTM:	7087462	mN	

Comments: Composite sample of rocks on historic trench floor witin a moly in soil anomaly.Not much rock showing in this area of trench. Quite overgrown. Rock sampled was all float and all unaltered or lighlty altered granodiorite.

Sample Number:	K291840	Date Collected:	2019-08-06	UTM:	519601	mE	Nad83, Zone 7
Elevation:	1059 m	Sampler:	Matt Van Loon	UTM:	7087453	mN	

Comments: Composite sample of rocks on historic trench floor witin a moly in soil anomaly. Mostly unaltered, crumbly granodiorite. No bedrock in sample

Sample Number:	K291841	Date Collected:	2019-08-06	UTM:	519603	mE	Nad83, Zone 7
Elevation:	1064 m	Sampler:	Matt Van Loon	UTM:	7087442	mN	

Comments: Composite sample of rocks on historic trench floor witin a moly in soil anomaly. Unaltered, weathered granodiorite. Not much rock at surface. No bedrock in sample

Sample Number:	K291842	Date Collected:	2019-08-06	UTM:	519605	mE	Nad83, Zone 7
Elevation:	1067 m	Sampler:	Matt Van Loon	UTM:	7087430	mN	

Comments: Composite sample of rocks on historic trench floor witin a moly in soil anomaly. Unaltered, weathered granodiorite. Lots of rock at surface however no bedrock

Sample Number:	K291843	Date Collected:	2019-08-06	UTM:	519606	mE	Nad83, Zone 7
Elevation:	1070 m	Sampler:	Matt Van Loon	UTM:	7087418	mN	

Comments: Composite sample of rocks on historic trench floor witin a moly in soil anomaly. Lightly altered granodiorite in places. Possibly argylic? No bedrock in this sample either

Rock Sample Descriptions Property: Connaught

Sample Number:	K291844	Date Collected:	2019-08-06	UTM:	519608	mE	Nad83, Zone 7
Elevation:	1073 m	Sampler:	Matt Van Loon	UTM:	7087408	mN	

Comments: Composite sample of rocks on historic trench floor witin a moly in soil anomaly. Altered and unaltered granodiorite. No bedrock - all float samples taken

Sample Number:	K291845	Date Collected:	2019-08-06	UTM:	519613	mE	Nad83, Zone 7
Elevation:	1076 m	Sampler:	Matt Van Loon	UTM:	7087398	mN	

Comments: Composite sample of rocks on historic trench floor witin a moly in soil anomaly. Unaltered granodiorite plus some chunks of solicious GRD. All float grabs

Sample Number:	K291846	Date Collected:	2019-08-06	UTM:	519614	mE	Nad83, Zone 7
Elevation:	1080 m	Sampler:	Matt Van Loon	UTM:	7087388	mN	

Comments: Composite sample of rocks on historic trench floor witin a moly in soil anomaly. Sample taken from bedrock along its 10m length. Pebbly and competent granodiorite interspersed with areas of solicious granodiorite.

Sample Number:	K291847	Date Collected:	2019-08-06	UTM:	519620	mE	Nad83, Zone 7
Elevation:	1083 m	Sampler:	Matt Van Loon	UTM:	7087379	mN	

Comments: Composite sample of rocks on historic trench floor witin a moly in soil anomaly. Approx 4m of bedrock sampled (mostly unaltered GRD plsu some lightly altered GRD) and 6m of surface grabs (unaltered and altered GRD)

Sample Number:	K291848	Date Collected:	2019-08-06	UTM:	519617	mE	Nad83, Zone 7
Elevation:	1084 m	Sampler:	Matt Van Loon	UTM:	7087382	mN	

Comments: Quartz with heavy manganese staining and sulphide pitting. Taken from float in a historic trench. Within a moly in soil anomaly.

Sample Number:	K291849	Date Collected:	2019-08-03	UTM:	516741	mE	Nad83, Zone 7
Elevation:	1253 m	Sampler:	Sarah Shoniker	UTM:	7087514	mN	

Comments: Rusty red-brown weathering, orange brown-grey fresh fine grained siliceous schist/ intrusive? Found in granite/ granodiorite float ~0.5m wide section of float inbetween granodiorite boulders. No Rep sample taken.

Rock Sample Descriptions Property: Connaught

Sample Number:	W793401	Date Collected:	2019-07-26	UTM:	509052	mE	Nad83, Zone 7
Elevation:	m	Sampler:	Jessie Gladish	UTM:	7085951	mN	

Comments: qtz float. Rusty orange. Silvery sulphides

Sample Number:	W793402	Date Collected:	2019-07-25	UTM:	508445	mE	Nad83, Zone 7
Elevation:	m	Sampler:	Jessie Gladish	UTM:	7088360	mN	

Comments: 100 strike, east/west, nearly vertical vein a few inches thick. Arsenopyrite, limonsite, scoradite. Trenches and old drill locations are up the hill a couple to a few hundred metres. This outcrop is approx 5-10 metres high rising out of the valley bottom by the creek.

Sample Number:	W793403	Date Collected:	2019-07-26	UTM:	508054	mE	Nad83, Zone 7
Elevation:	m	Sampler:	Jessie Gladish	UTM:	7087545	mN	

Comments: photos in CN folder. Float

Sample Number:	W793404	Date Collected:	2019-07-26	UTM:	513368	mE	Nad83, Zone 7
Elevation:	m	Sampler:	Jessie Gladish	UTM:	7089255	mN	

Comments: photos in CN folder. Float

Sample Number:	W793405	Date Collected:	2019-07-26	UTM:	513549	mE	Nad83, Zone 7
Elevation:	m	Sampler:	Jessie Gladish	UTM:	7088028	mN	

Comments: photos in CN folder. Float

Sample Number:	W793406	Date Collected:	2019-07-30	UTM:	517202	mE	Nad83, Zone 7
Elevation:	1447 m	Sampler:	Jessie Gladish	UTM:	7088703	mN	

Comments: drk green/purpley/brn wx-ing. Very weather altered skarn like. Actinolite? No visible sulphides. From SS location ZZ102426

Sample Number:	W793407	Date Collected:	2019-07-30	UTM:	516210	mE	Nad83, Zone 7
Elevation:	1336 m	Sampler:	Jessie Gladish	UTM:	7088446	mN	

Comments: amphibole, drk green, platey crystals. Float train somewhat N/S orientation

Rock Sample Descriptions Property: Connaught

Sample Number:	W793408	Date Collected:	2019-07-30	UTM:	516653	mE	Nad83, Zone 7
Elevation:	1478 m	Sampler:	Jessie Gladish	UTM:	7088751	mN	

Comments: sparese sulphides, light colored host rock. Vfg. Malachite and pyrite.

Sample Number:	W793409	Date Collected:	2019-07-30	UTM:	515966	mE	Nad83, Zone 7
Elevation:	1344 m	Sampler:	Jessie Gladish	UTM:	7088588	mN	

Comments: flaot. Drk oxidized yellowy weathering, sulphides. Oily coloring.

Sample Number:	W793410	Date Collected:	2019-07-30	UTM:	516211	mE	Nad83, Zone 7
Elevation:	1414 m	Sampler:	Jessie Gladish	UTM:	7088642	mN	

Comments: float, no photo. Drk matrix, red/orange oxidized pit in center.

Sample Number:	W793411	Date Collected:	2019-07-31	UTM:	513030	mE	Nad83, Zone 7
Elevation:	1229 m	Sampler:	Jessie Gladish	UTM:	7089250	mN	

Comments: float, near soil sample anomoloy. Valley, brushy.pitted qtz. Photos in CN folder.

Sample Number:	W793412	Date Collected:	2019-07-31	UTM:	514721	mE	Nad83, Zone 7
Elevation:	1204 m	Sampler:	Jessie Gladish	UTM:	7089516	mN	

Comments: qtz float

Sample Number:	W793413	Date Collected:	2019-07-31	UTM:	514736	mE	Nad83, Zone 7
Elevation:	1199 m	Sampler:	Jessie Gladish	UTM:	7089518	mN	

Comments: flaot. Drk rock, weathered pitted.

Sample Number:	W793414	Date Collected:	2019-07-31	UTM:	514655	mE	Nad83, Zone 7
Elevation:	1209 m	Sampler:	Jessie Gladish	UTM:	7089602	mN	

Comments: qtz. Orange/red oxidized serrisite.

Rock Sample Descriptions Property: Connaught

Sample Number:	W793415	Date Collected:	2019-07-31	UTM:	514723	mE	Nad83, Zone 7
Elevation:	1204 m	Sampler:	Jessie Gladish	UTM:	7089515	mN	

Comments: lg boulder but likely float, maybe sub crop. Pitted, blueish/grey, ywllow green, arsnic?

Sample Number:	W793416	Date Collected:	2019-07-31	UTM:	512788	mE	Nad83, Zone 7
Elevation:	1243 m	Sampler:	Jessie Gladish	UTM:	7089509	mN	

Comments: qtz float.

Sample Number:	W793417	Date Collected:	2019-08-01	UTM:	508932	mE	Nad83, Zone 7
Elevation:	1487 m	Sampler:	Jessie Gladish	UTM:	7086322	mN	

Comments: vuggy, oxidized red. Qtz

Sample Number:	W793418	Date Collected:	2019-08-01	UTM:	508279	mE	Nad83, Zone 7
Elevation:	1240 m	Sampler:	Jessie Gladish	UTM:	7087837	mN	

Comments: qtz breccia float

Sample Number:	W793419	Date Collected:	2019-08-01	UTM:	508107	mE	Nad83, Zone 7
Elevation:	1242 m	Sampler:	Jessie Gladish	UTM:	7087949	mN	

Comments: greenish/yellowy rock, similar to no.1 vein (arsnic?). In a trench on the ridge

Sample Number:	W793420	Date Collected:	2019-08-04	UTM:	512097	mE	Nad83, Zone 7
Elevation:	1124 m	Sampler:	Jessie Gladish	UTM:	7086450	mN	

Comments: potatoe-y rock nuggets. Weathered/oxidized heavily. Green yellow inside one nugget. Small pieces of float in hand pit 30-40 cm deep in an orange layer of soil. Easy to dig soil, sandy/granosiorite pebbles. Open ridge in a couple dirt patches. Photos in CN folder. Photo of pits as well.

Sample Number:	W793421	Date Collected:	2019-08-04	UTM:	512095	mE	Nad83, Zone 7
Elevation:	1125 m	Sampler:	Jessie Gladish	UTM:	7086448	mN	

Comments: white soft weathered mineral inside small float potatoe nugget. Calcium carbonate? I am not sure. Oxidized. Red orange yellowy inside. Photos in CN folder

Rock Sample Descriptions Property: Connaught

Sample Number:	W793422	Date Collected:	2019-08-04	UTM:	512101	mE	Nad83, Zone 7
Elevation:	1122 m	Sampler:	Jessie Gladish	UTM:	7086454	mN	

Comments: third pit on the sane ridge in a 10x10m open slope. Granodiorite main host rock. Easy digging soil (pebbly granite pieces/sand). Potatoe-y black pitted outside, white/red pitted inside. Small piece.

Sample Number:	W793423	Date Collected:	2019-08-04	UTM:	512208	mE	Nad83, Zone 7
Elevation:	1091 m	Sampler:	Jessie Gladish	UTM:	7086493	mN	

Comments: small sample, potatoe-y rock, similar to previous three samples but much less found in the hand pit.

Sample Number:	W793424	Date Collected:	2019-08-05	UTM:	516375	mE	Nad83, Zone 7
Elevation:	703 m	Sampler:	Jessie Gladish	UTM:	7088717	mN	

Comments: 92 m long trench. North/south. Rock sample M676708 in the middle is why we returned to check it out. Dug a 1x1x1m hand pit in the trench beside the rock sample. Hit qtz galena float on the surface and then a qtz vein w galena and then arsenopyrite packed nuggets below the qtz vein. Sampled 3 different rock coming out of the pit. A fine grained black/green weathered rock, the qtz vein, and the arsenopyrite. The qtz vein was roughly 40 dip east. And seemed to be 030 azimuth…just off north, but I could have done it wrong as it is supposedly a E/W vein…photos in CN folder

Sample Number:	W793425	Date Collected:	2019-08-05	UTM:	516375	mE	Nad83, Zone 7
Elevation:	703 m	Sampler:	Jessie Gladish	UTM:	7088717	mN	

Comments: 92 m long trench. North/south. Rock sample M676708 in the middle is why we returned to check it out. Dug a 1x1x1m hand pit in the trench beside the rock sample. Hit qtz galena float on the surface and then a qtz vein w galena and then arsenopyrite packed nuggets below the qtz vein. Sampled 3 different rock coming out of the pit. A fine grained black/green weathered rock, the qtz vein, and the arsenopyrite. The qtz vein was roughly 40 dip east. And seemed to be 030 azimuth…just off north, but I could have done it wrong as it is supposedly a E/W vein…photos in CN folder

Rock Sample Descriptions Property: Connaught

Sample Number:	W793426	Date Collected:	2019-08-05	UTM:	516375	mE	Nad83, Zone 7
Elevation:	703 m	Sampler:	Jessie Gladish	UTM:	7088717	mN	

Comments: 92 m long trench. North/south. Rock sample M676708 in the middle is why we returned to check it out. Dug a 1x1x1m hand pit in the trench beside the rock sample. Hit qtz galena float on the surface and then a qtz vein w galena and then arsenopyrite packed nuggets below the qtz vein. Sampled 3 different rock coming out of the pit. A fine grained black/green weathered rock, the qtz vein, and the arsenopyrite. The qtz vein was roughly 40 dip east. And seemed to be 030 azimuth…just off north, but I could have done it wrong as it is supposedly a E/W vein…photos in CN folder

Sample Number:	W793427	Date Collected:	2019-08-02	UTM:	520796	mE	Nad83, Zone 7
Elevation:	1281 m	Sampler:	Jessie Gladish	UTM:	7086336	mN	

Comments: float train of pyrite/weathered drk red/blk rock. Float train is approx 25m long 307 azimuth and 70 SW dip on the only piece of rock that looked somewhat sub crop/in place. Would not rely on that being accurate without a closer look/hand pitting to find bedrock if possible.. 5-7m wide at most (biggest width between samples, not a solid mass of rock).

Sample Number:	W793428	Date Collected:	2019-08-05	UTM:	520336	mE	Nad83, Zone 7
Elevation:	705 m	Sampler:	Jessie Gladish	UTM:	7087165	mN	

Comments: follow up on heathers rock sample. On road. Only found small bits of float, no source. Checked 15-20 m both sides of the road. Could be pushed from elsewhere/deep under surface. Photo in CN folder

Sample Number:	W793429	Date Collected:	2019-08-02	UTM:	520833	mE	Nad83, Zone 7
Elevation:	1279 m	Sampler:	Jessie Gladish	UTM:	7086324	mN	

Comments: float on ridge above pyrite float train.

Sample Number:	W793430	Date Collected:	2019-08-06	UTM:	519397	mE	Nad83, Zone 7
Elevation:	705 m	Sampler:	Jessie Gladish	UTM:	7087489	mN	

Comments: moly anomolous soil sample ZZ107409. nothing substantial in pit..small pieces of float, no distinguishable moly in float. Granite main rock type, weathered. In old creek, thick brush/forested valley.

APPENDIX IV

CERTIFICATES OF ANALYSIS

ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 25-SEP-2019
Account: RCM

CERTIFICATE WH19198339

Project: CN

This report is for 63 Rock samples submitted to our lab in Whitehorse, YT, Canada on 12-AUG-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE	

SAMPLE PREPARATION

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

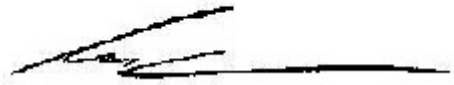
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA24	Au 50g FA AA finish	AAS
ME-MS41	Ultra Trace Aqua Regia ICP-MS	
Ag-OG46	Ore Grade Ag - Aqua Regia	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Pb-OG46	Ore Grade Pb - Aqua Regia	
Zn-OG46	Ore Grade Zn - Aqua Regia	
Ag-GRA21	Ag 30g FA-GRAV finish	WST-SIM
Pb-VOL70	Pb by Titration	

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

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

Signature:



Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Project: CN

Finalized Date: 25-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198339

Sample Description	Method	WEI-21	Au-AA24	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.005	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
W793401		0.50	0.006	0.07	0.37	15.5	<0.02	<10	50	0.16	0.15	0.07	0.02	28.8	6.8	9
W793402		1.98	0.718	14.20	0.27	>10000	0.69	<10	120	0.98	1.05	0.03	63.6	69.7	2.9	7
W793403		1.87	<0.005	1.30	0.81	38.9	<0.02	<10	60	0.31	0.62	0.18	0.43	67.3	0.5	10
W793404		2.05	<0.005	0.09	0.14	8.9	<0.02	<10	20	0.07	3.02	0.04	0.04	3.56	0.3	10
W793405		2.47	<0.005	0.10	4.12	16.7	<0.02	<10	220	1.78	0.29	2.49	0.55	30.6	11.4	73
W793406		1.66	0.059	0.09	1.25	37.8	<0.02	<10	20	0.36	0.06	0.94	0.53	7.95	1.9	4
W793407		2.41	<0.005	0.20	0.21	37.6	<0.02	<10	60	0.07	0.11	0.55	0.09	2.83	7.2	37
W793408		2.45	<0.005	0.96	0.87	67.3	<0.02	<10	200	0.23	2.92	1.16	1.08	2.48	4.2	18
W793409		0.96	0.005	0.06	3.44	5.0	<0.02	<10	200	0.73	0.08	0.93	0.09	12.50	7.4	40
W793410		0.63	<0.005	1.54	1.59	131.0	<0.02	<10	70	0.28	0.28	0.26	2.38	19.45	59.5	23
W793411		0.55	<0.005	0.05	0.46	1.3	<0.02	<10	40	0.43	0.14	0.01	0.04	61.2	1.9	6
W793412		1.13	<0.005	0.26	0.21	87.2	<0.02	<10	30	0.14	0.02	0.04	0.90	2.97	1.3	17
W793413		1.38	<0.005	0.59	0.60	86.6	<0.02	<10	130	0.20	0.13	8.35	2.16	19.20	26.8	17
W793414		1.53	2.57	>100	0.15	1935	1.11	<10	70	0.24	4.09	0.01	3.68	46.3	0.2	13
W793415		2.10	0.492	51.7	0.18	>10000	0.30	<10	380	0.14	3.87	0.12	7.95	6.70	0.8	28
W793416		0.82	0.008	0.87	0.05	86.6	<0.02	<10	30	<0.05	0.05	<0.01	0.06	2.85	0.2	14
W793417		1.09	<0.005	0.43	0.07	245	<0.02	<10	10	0.27	0.74	0.02	0.07	2.56	3.1	14
W793418		0.45	0.012	0.41	0.83	74.6	<0.02	<10	50	1.10	1.09	0.04	0.99	53.2	2.1	4
W793419		1.03	0.600	>100	1.20	>10000	0.67	<10	130	2.06	0.58	0.03	9.51	290	0.3	2
W793420		0.65	0.272	>100	0.28	>10000	0.30	<10	140	1.23	29.2	0.02	32.4	8.42	2.3	4
W793421		1.01	0.491	>100	0.58	>10000	0.53	<10	40	0.48	263	0.04	10.20	16.25	2.5	3
W793422		0.17	0.113	>100	0.52	3780	0.11	<10	10	0.51	56.9	0.02	1.67	3.91	0.8	2
W793423		0.26	0.485	>100	1.50	>10000	0.48	<10	60	1.91	368	0.60	2.23	32.1	5.3	4
W793424		0.83	0.033	36.6	0.89	3100	0.03	<10	<10	0.14	33.0	1.83	111.5	1.48	10.0	9
W793425		1.23	3.17	40.9	1.53	>10000	2.71	<10	<10	0.15	81.2	0.47	103.0	0.58	997	3
W793426		1.25	0.270	18.65	4.42	>10000	0.26	<10	<10	0.48	24.5	0.96	34.4	0.54	67.1	8
W793427		1.96	<0.005	0.56	1.02	86.2	<0.02	<10	40	0.26	2.72	0.37	0.12	13.20	25.3	8
W793428		1.14	1.960	>100	0.45	>10000	1.97	<10	230	0.36	256	0.05	13.00	13.65	2.2	4
W793429		0.59	0.008	2.02	0.64	166.5	<0.02	<10	120	0.39	10.80	0.32	0.10	18.95	1.6	8
W793430		1.48	0.009	2.04	1.25	169.5	<0.02	<10	180	0.55	1.08	0.56	0.26	34.0	5.7	5
K291817		2.02	<0.005	2.91	1.24	490	<0.02	<10	30	0.49	4.33	0.49	13.35	11.50	8.6	21
K291818		1.39	<0.005	0.50	0.93	54.0	<0.02	<10	200	0.38	2.93	0.13	0.24	46.1	0.9	38
K291819		1.33	0.213	>100	0.17	>10000	0.20	<10	120	0.08	9.72	<0.01	48.1	10.05	0.6	11
K291820		2.18	<0.005	1.50	0.35	429	<0.02	<10	20	1.03	1.79	0.01	0.46	24.9	0.6	6
K291821		1.80	2.20	16.55	0.11	>10000	2.25	<10	40	0.14	1.18	0.01	3.97	15.80	0.8	11
K291822		1.73	7.32	81.7	0.04	>10000	7.16	<10	30	<0.05	2.14	0.01	1.69	0.55	0.1	8
K291823		1.65	7.90	>100	0.11	>10000	7.51	<10	20	0.06	18.60	<0.01	16.75	1.50	0.3	2
K291824		2.30	0.046	4.57	1.01	394	0.05	<10	160	0.48	0.10	0.50	7.64	47.6	6.5	8
K291825		1.63	0.779	56.0	0.60	>10000	0.81	<10	100	0.34	2.18	0.01	5.26	24.6	0.3	7
K291826		3.19	1.830	3.26	0.07	>10000	1.82	<10	70	0.06	0.43	<0.01	2.22	3.11	0.2	12

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Project: CN

Finalized Date: 25-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198339

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
W793401		1.10	31.3	1.68	4.03	<0.05	<0.02	<0.01	0.013	0.14	17.2	5.1	0.09	74	2.12	0.02
W793402		0.92	131.5	5.32	1.88	0.07	0.03	0.16	0.387	0.16	42.1	0.9	0.01	2650	0.95	<0.01
W793403		0.87	20.9	1.54	4.80	0.09	0.02	<0.01	0.219	0.26	31.0	15.7	0.31	338	0.71	0.03
W793404		0.13	60.2	0.74	0.82	<0.05	0.05	<0.01	0.080	0.04	2.2	1.9	0.05	75	0.18	<0.01
W793405		3.09	51.0	1.88	11.50	0.08	0.06	<0.01	0.009	0.39	17.4	9.1	0.52	169	12.85	0.33
W793406		0.92	72.0	2.86	5.88	0.07	0.16	<0.01	0.259	0.01	4.1	8.2	0.99	901	0.15	0.01
W793407		0.31	147.5	1.53	1.65	<0.05	0.05	<0.01	0.019	0.05	1.0	1.2	0.57	178	0.09	0.02
W793408		0.80	163.0	1.88	4.24	0.06	0.09	<0.01	0.058	0.16	1.2	10.6	0.64	686	0.06	0.03
W793409		12.00	25.1	3.62	14.55	0.06	0.03	<0.01	0.020	1.34	5.7	36.3	1.02	267	0.61	0.33
W793410		1.08	405	4.97	7.60	0.06	0.08	0.01	0.098	0.15	8.7	29.1	0.95	1420	0.20	0.02
W793411		0.38	2.4	0.66	2.65	<0.05	0.13	<0.01	0.005	0.24	21.0	3.0	0.16	246	0.54	0.01
W793412		0.18	22.3	1.07	1.57	<0.05	<0.02	<0.01	0.016	0.02	1.7	3.2	0.14	201	0.55	<0.01
W793413		0.27	79.3	2.76	1.77	<0.05	0.05	<0.01	0.012	0.08	8.9	3.6	0.18	1190	1.22	<0.01
W793414		0.05	318	0.69	1.77	<0.05	0.05	6.96	0.178	0.14	32.9	1.2	0.02	27	5.37	<0.01
W793415		0.31	343	6.88	5.55	<0.05	0.04	0.03	0.331	0.21	3.5	1.2	0.01	94	5.82	<0.01
W793416		0.18	19.7	0.69	0.63	<0.05	<0.02	0.04	<0.005	0.05	3.0	0.1	<0.01	33	0.63	0.01
W793417		0.12	101.0	4.90	2.85	0.09	<0.02	0.01	0.032	0.01	0.9	0.3	<0.01	82	5.10	0.01
W793418		2.52	100.0	4.26	5.24	0.07	0.05	0.01	0.068	0.21	24.3	5.2	0.05	137	2.07	<0.01
W793419		8.34	403	5.21	8.93	0.41	0.04	0.10	10.05	0.33	230	1.5	0.02	18	2.23	<0.01
W793420		0.45	3900	14.60	3.65	0.08	0.04	1.59	7.29	0.35	6.5	1.6	0.01	1080	48.6	0.02
W793421		0.55	7660	10.85	6.20	0.07	0.04	0.22	9.73	0.09	9.5	2.1	0.03	204	60.1	0.02
W793422		0.18	393	1.25	8.80	<0.05	0.02	0.10	1.760	0.01	2.7	1.0	0.01	40	114.5	<0.01
W793423		6.29	594	4.05	5.36	0.06	0.08	0.02	0.720	0.16	20.8	13.9	0.26	543	8.23	0.01
W793424		1.64	1120	2.84	3.41	0.15	<0.02	0.02	4.14	0.02	0.8	25.6	0.86	1350	0.42	<0.01
W793425		0.89	414	26.1	5.99	0.58	<0.02	0.01	0.180	0.24	0.3	30.3	1.35	789	10.10	<0.01
W793426		0.64	690	11.10	16.10	0.61	0.03	0.01	0.817	0.02	0.3	107.5	3.87	2600	1.23	<0.01
W793427		0.89	161.0	5.42	5.63	0.10	0.13	<0.01	0.082	0.06	5.5	14.9	0.34	149	1.72	0.03
W793428		0.89	1880	7.10	2.86	0.05	0.03	0.32	6.75	0.17	9.5	2.0	0.03	117	269	0.01
W793429		0.68	110.5	4.15	6.14	0.14	0.37	0.01	0.109	0.14	12.9	5.5	0.30	137	1.29	0.03
W793430		1.61	40.4	1.36	3.39	<0.05	0.04	<0.01	0.032	0.17	16.7	9.0	0.16	402	35.8	0.09
K291817		0.66	168.0	6.42	7.01	0.29	0.11	0.01	0.168	0.03	5.2	11.2	0.40	856	0.78	<0.01
K291818		0.59	26.3	1.99	6.99	0.08	0.23	<0.01	0.041	0.14	24.3	20.9	0.62	265	5.21	0.02
K291819		0.23	194.5	1.47	1.24	<0.05	<0.02	0.04	0.685	0.10	4.9	1.1	0.01	37	0.78	<0.01
K291820		0.47	180.5	7.67	3.26	0.06	0.04	<0.01	0.141	0.20	12.5	5.0	0.01	29	14.35	<0.01
K291821		0.12	111.0	5.51	4.43	<0.05	<0.02	0.01	1.135	0.05	8.7	0.7	<0.01	145	3.61	<0.01
K291822		0.09	125.5	4.80	0.63	<0.05	<0.02	0.10	0.283	0.02	0.4	0.6	<0.01	100	4.94	<0.01
K291823		0.16	2240	7.33	2.47	<0.05	<0.02	0.22	4.22	0.06	1.0	0.5	<0.01	52	4.23	<0.01
K291824		1.60	42.0	3.41	5.21	0.08	0.13	<0.01	0.072	0.24	26.0	20.0	0.52	2230	1.98	0.04
K291825		0.63	240	5.12	4.66	0.05	0.07	0.20	2.74	0.34	14.1	0.8	0.01	61	65.9	0.01
K291826		0.37	81.4	2.24	0.90	<0.05	<0.02	0.02	0.241	0.04	2.0	0.9	<0.01	62	0.69	<0.01

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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VANCOUVER BC V6B 1L8

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
W793401		1.11	2.2	300	8.8	8.1	<0.001	0.05	0.07	1.3	<0.2	0.9	8.3	<0.01	0.03	7.8
W793402		0.23	2.0	70	5760	20.7	<0.001	0.86	230	0.9	0.3	3.3	25.1	<0.01	0.06	5.0
W793403		0.09	2.9	840	197.0	24.1	<0.001	<0.01	1.45	1.5	0.3	0.4	4.2	<0.01	0.01	20.4
W793404		0.32	0.6	100	7.8	3.0	<0.001	0.01	0.13	0.1	0.2	1.0	3.1	<0.01	0.04	2.0
W793405		0.44	74.0	830	12.9	31.2	0.017	0.52	0.21	3.3	4.2	0.6	156.5	0.02	0.05	9.3
W793406		0.13	2.5	180	12.7	1.3	<0.001	<0.01	0.97	1.4	<0.2	0.8	36.7	<0.01	<0.01	1.7
W793407		0.08	6.8	90	6.3	6.0	<0.001	0.05	0.28	3.9	0.5	0.4	5.7	<0.01	0.03	0.5
W793408		0.68	8.1	600	118.0	14.2	<0.001	0.04	0.42	5.3	<0.2	1.8	20.2	<0.01	0.05	0.7
W793409		0.30	12.9	520	3.9	124.0	0.001	0.27	0.18	22.3	1.0	0.4	65.9	<0.01	0.04	3.5
W793410		0.48	52.2	520	274	21.1	<0.001	0.02	0.59	14.0	2.2	1.4	5.8	<0.01	0.12	2.6
W793411		0.21	0.9	80	7.7	17.2	<0.001	<0.01	0.08	0.5	<0.2	0.3	3.0	<0.01	0.01	25.1
W793412		0.13	8.5	110	87.4	1.6	<0.001	0.01	0.50	1.1	0.3	0.4	2.7	<0.01	0.01	0.2
W793413		1.70	66.4	950	19.7	3.8	0.002	0.09	0.59	2.0	4.2	1.2	301	0.02	0.12	2.5
W793414		0.47	0.6	80	>10000	6.7	<0.001	0.20	2130	0.4	0.5	0.4	6.5	<0.01	8.20	37.1
W793415		0.08	1.7	710	>10000	13.9	0.003	0.43	125.0	3.6	5.2	6.2	9.4	<0.01	0.26	3.2
W793416		<0.05	0.6	30	77.9	1.9	<0.001	0.03	12.45	0.1	0.3	<0.2	3.6	<0.01	0.06	1.2
W793417		0.05	3.1	20	87.3	0.8	<0.001	<0.01	3.03	0.3	0.6	0.9	1.1	<0.01	0.06	0.2
W793418		0.35	2.8	360	81.9	38.2	<0.001	0.02	4.18	2.6	0.5	1.4	4.4	<0.01	0.03	27.5
W793419		0.12	0.8	100	>10000	33.8	<0.001	1.08	1280	1.6	0.2	13.1	60.8	<0.01	0.02	13.1
W793420		0.09	1.4	660	>10000	20.7	<0.001	1.89	564	0.7	0.4	2.2	115.0	<0.01	0.04	3.6
W793421		0.20	1.1	440	>10000	11.6	<0.001	3.10	1755	0.7	1.4	5.0	41.5	<0.01	0.18	2.9
W793422		0.06	1.2	120	>10000	1.5	<0.001	0.12	382	0.5	2.1	1.7	26.9	<0.01	<0.01	1.1
W793423		0.19	2.6	660	>10000	36.9	<0.001	0.28	134.5	2.6	0.4	1.3	74.8	<0.01	0.48	14.3
W793424		<0.05	5.5	10	>10000	8.0	<0.001	0.90	19.25	2.1	1.8	1.9	10.9	<0.01	0.21	0.3
W793425		0.06	52.8	30	5620	11.2	0.002	9.83	124.0	1.6	14.0	1.2	188.0	<0.01	14.60	<0.2
W793426		<0.05	8.3	110	6080	2.5	0.001	1.62	13.30	1.6	1.6	3.6	12.0	<0.01	0.75	<0.2
W793427		0.64	15.7	1080	61.1	4.8	0.002	2.72	0.54	3.8	0.7	2.7	20.7	<0.01	0.47	2.2
W793428		0.07	0.9	330	>10000	18.2	0.001	0.93	1320	0.9	5.2	2.7	77.6	<0.01	0.28	4.2
W793429		1.99	2.5	1860	220	9.8	<0.001	0.16	3.26	4.4	0.3	3.5	32.9	0.01	0.18	3.5
W793430		0.35	6.8	430	210	18.4	0.001	0.09	4.11	1.6	0.2	0.2	44.4	<0.01	0.01	16.6
K291817		0.84	19.8	560	363	2.3	<0.001	0.04	5.87	2.5	1.0	5.6	28.9	0.02	0.05	5.4
K291818		1.11	3.8	890	75.9	15.1	0.001	0.08	0.81	4.2	0.5	0.7	33.6	<0.01	0.05	11.3
K291819		0.06	2.4	160	7290	9.6	0.001	0.20	1200	0.6	1.4	1.2	2.1	<0.01	0.03	1.5
K291820		2.65	1.0	60	417	20.4	<0.001	0.10	9.49	0.8	4.0	2.2	1.2	0.08	0.15	66.1
K291821		0.06	0.9	100	8860	3.7	0.001	0.24	160.0	0.2	<0.2	0.3	98.4	<0.01	0.01	0.9
K291822		0.09	0.7	70	2660	2.1	0.003	0.14	557	0.3	<0.2	0.6	15.1	<0.01	0.01	0.3
K291823		<0.05	0.4	150	>10000	6.2	0.001	6.97	2120	3.6	0.5	6.7	6.2	<0.01	0.01	3.7
K291824		0.38	4.7	980	1830	32.6	<0.001	0.13	6.36	3.7	<0.2	0.5	22.8	<0.01	<0.01	18.8
K291825		0.05	0.5	750	>10000	30.5	0.001	0.87	322	0.9	<0.2	1.7	338	<0.01	<0.01	3.1
K291826		<0.05	0.6	60	649	5.6	<0.001	0.06	107.5	0.1	<0.2	0.5	15.0	<0.01	<0.01	0.7

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Project: CN

Finalized Date: 25-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198339

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Ag-OG46	Pb-OG46	Zn-OG46	Ag-GRA21	Pb-VOL70
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Ag	Pb	Zn	Ag	Pb
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	%
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5	1	0.001	0.001	5	0.01
W793401		0.042	0.06	3.16	8	0.17	8.00	8	<0.5					
W793402		<0.005	0.25	14.45	2	0.16	20.2	905	0.7					
W793403		<0.005	0.21	2.72	11	<0.05	11.20	241	<0.5					
W793404		0.005	0.04	1.00	1	0.10	1.11	16	1.6					
W793405		0.109	0.50	2.60	82	0.66	8.39	58	1.7					
W793406		0.027	0.02	8.45	13	0.39	5.84	29	4.0					
W793407		0.050	0.08	0.12	23	0.05	1.57	17	0.9					
W793408		0.163	0.20	0.29	59	0.37	5.59	206	1.4					
W793409		0.202	0.95	0.65	142	0.11	4.97	43	<0.5					
W793410		0.102	0.22	2.67	65	0.45	12.30	486	1.5					
W793411		0.007	0.13	2.14	2	0.07	4.75	69	4.6					
W793412		0.013	0.03	0.43	18	0.06	1.55	91	<0.5					
W793413		0.181	0.15	0.86	11	0.23	9.43	109	1.3					
W793414		<0.005	0.15	41.0	1	0.05	1.55	36	2.0	157	1.070			
W793415		0.013	0.41	0.85	42	0.69	0.75	180	2.1		2.22			
W793416		<0.005	0.07	0.91	1	<0.05	0.68	9	0.6					
W793417		<0.005	0.04	0.42	5	0.24	0.99	7	<0.5					
W793418		<0.005	0.43	3.71	7	0.05	8.11	137	1.5					
W793419		<0.005	0.33	21.5	2	0.18	13.05	907	0.9	117	7.83			
W793420		<0.005	0.31	23.1	18	6.60	2.46	1380	1.3	260	8.83			
W793421		0.007	0.12	5.19	8	3.21	1.57	290	1.1	1130	18.95			
W793422		<0.005	0.02	4.71	4	2.26	0.83	108	0.7	1425	>20.0			55.03
W793423		0.012	0.22	7.42	27	0.41	5.45	277	1.9	260	3.71			
W793424		<0.005	0.24	0.18	17	<0.05	1.36	>10000	<0.5		1.590	2.07		
W793425		<0.005	0.31	0.11	18	<0.05	1.17	5770	<0.5					
W793426		0.011	0.11	0.17	18	0.08	3.30	5070	0.7					
W793427		0.127	0.10	0.91	54	5.32	7.28	31	2.8					
W793428		<0.005	0.21	46.6	7	128.0	2.85	561	0.9	642	6.24			
W793429		0.213	0.10	1.48	77	3.45	3.37	18	7.7					
W793430		0.019	0.18	3.19	15	0.66	5.80	35	1.9					
K291817		0.129	0.55	1.19	20	0.18	2.84	1490	1.7					
K291818		0.079	0.23	4.77	72	1.98	6.79	44	8.2					
K291819		<0.005	0.38	2.47	5	1.83	0.87	204	<0.5	207				
K291820		<0.005	0.17	5.40	1	6.83	8.48	110	1.3					
K291821		<0.005	0.10	5.32	2	0.74	0.45	239	<0.5					
K291822		<0.005	0.05	2.60	1	390	0.14	41	<0.5					
K291823		<0.005	0.63	11.00	5	11.95	0.31	222	<0.5	>1500	>20.0		1485	43.96
K291824		0.056	0.27	2.76	55	4.00	11.10	1080	2.8					
K291825		<0.005	0.35	51.4	8	71.5	1.19	312	2.7		4.05			
K291826		<0.005	0.06	2.21	1	0.51	0.25	56	<0.5					

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ALS Canada Ltd.
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North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS WH19198339

Sample Description	Method	WEI-21	Au-AA24	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.005	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
K291827		1.87	0.015	1.44	0.73	228	<0.02	<10	170	0.22	0.09	0.49	0.47	40.0	4.5	9
K291828		1.90	5.91	>100	0.49	>10000	5.97	<10	20	0.32	21.9	0.01	11.30	2.26	0.7	4
K291829		2.05	0.008	0.68	0.49	91.9	<0.02	<10	100	0.43	0.35	0.15	0.19	45.6	4.4	5
K291830		0.43	0.138	7.27	0.08	1110	0.14	<10	10	0.05	0.67	0.02	0.27	0.74	2.1	9
K291831		0.72	<0.005	0.23	0.25	16.0	<0.02	<10	100	0.11	2.45	0.01	0.03	1.14	0.1	2
K291832		0.40	0.005	0.80	0.36	24.2	<0.02	<10	100	0.15	0.63	0.01	0.04	3.31	0.1	4
K291833		1.11	<0.005	0.17	0.03	19.0	<0.02	<10	10	<0.05	0.27	<0.01	0.02	0.45	0.5	14
K291834		0.46	0.408	>100	0.54	>10000	0.40	<10	50	0.63	162.5	0.02	4.53	48.1	1.2	4
K291835		0.75	0.256	>100	0.25	>10000	0.31	<10	50	0.23	5.17	0.02	1.10	16.70	0.8	5
K291836		0.41	0.464	>100	0.65	>10000	0.38	<10	110	0.44	15.75	0.02	26.6	56.0	1.2	4
K291837		1.36	<0.005	8.41	0.27	166.5	<0.02	<10	80	0.27	140.5	0.03	0.06	29.5	0.4	4
K291838		2.11	0.007	6.06	0.63	691	<0.02	<10	250	0.43	0.71	0.20	1.00	52.2	4.9	6
K291839		2.64	<0.005	0.18	0.65	27.1	<0.02	<10	100	0.35	0.53	0.25	0.12	42.3	4.1	7
K291840		2.98	<0.005	0.27	0.69	41.8	<0.02	<10	110	0.39	0.57	0.26	0.14	47.0	5.4	5
K291841		2.13	<0.005	0.08	0.68	33.4	<0.02	<10	100	0.50	0.31	0.20	0.27	53.2	5.0	5
K291842		3.24	<0.005	0.25	0.62	57.9	<0.02	<10	100	0.40	0.37	0.21	0.22	132.5	3.8	5
K291843		3.00	<0.005	0.07	0.63	33.6	<0.02	<10	100	0.38	1.21	0.25	0.20	43.7	3.9	5
K291844		1.64	0.005	0.10	0.53	27.0	<0.02	<10	110	0.36	0.75	0.22	0.18	43.5	3.5	5
K291845		2.37	<0.005	0.07	0.60	36.7	<0.02	<10	110	0.37	0.41	0.26	0.14	44.4	3.2	6
K291846		4.92	<0.005	0.12	0.89	65.5	<0.02	<10	140	0.44	1.63	0.37	0.17	44.4	4.0	7
K291847		5.26	<0.005	0.12	0.83	96.9	<0.02	<10	150	0.62	1.57	0.29	0.32	47.7	4.5	6
K291848		0.31	0.069	4.46	0.18	815	0.07	<10	350	0.27	9.50	0.03	3.08	20.0	14.4	4
K291849		1.22	<0.005	0.26	1.16	7.4	<0.02	<10	30	0.22	0.95	0.87	0.01	27.5	4.5	14

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
K291827		1.16	29.6	3.16	4.83	0.09	0.16	<0.01	0.041	0.25	22.8	9.8	0.46	241	1.24	0.07
K291828		0.22	1720	10.05	2.08	0.06	0.02	0.36	85.8	0.13	1.3	1.2	0.01	169	239	<0.01
K291829		1.32	96.5	1.12	2.02	<0.05	0.03	<0.01	0.112	0.18	24.2	4.9	0.08	636	25.1	0.03
K291830		0.08	61.4	1.11	0.86	<0.05	<0.02	0.01	1.630	0.03	0.5	0.5	0.01	47	6.29	<0.01
K291831		0.31	1.5	1.93	0.63	<0.05	<0.02	<0.01	0.015	0.25	0.6	0.4	0.01	9	3.05	0.12
K291832		0.77	2.8	0.53	0.60	<0.05	<0.02	<0.01	0.023	0.28	1.5	1.1	0.01	22	1.33	0.03
K291833		0.05	3.0	0.55	0.34	<0.05	<0.02	<0.01	0.009	0.03	0.4	0.2	<0.01	30	0.33	<0.01
K291834		0.45	939	8.48	13.85	0.07	0.03	0.24	5.67	0.31	32.7	0.6	0.01	96	0.86	0.01
K291835		0.60	591	8.39	9.95	0.05	0.03	0.06	0.851	0.61	16.3	0.7	0.01	77	18.20	0.13
K291836		0.39	1450	13.35	21.6	0.08	0.04	0.45	16.10	0.49	52.7	0.9	0.01	131	7.16	0.23
K291837		0.84	60.7	1.61	1.70	<0.05	0.15	0.01	0.040	0.23	23.5	0.6	0.02	90	243	<0.01
K291838		1.64	44.3	1.92	3.79	0.05	0.11	0.01	0.218	0.19	34.0	11.5	0.23	2390	52.9	0.04
K291839		1.35	21.8	1.77	4.04	0.06	0.17	<0.01	0.014	0.17	22.8	14.6	0.31	523	30.3	0.04
K291840		1.74	24.2	1.77	3.81	0.06	0.18	<0.01	0.016	0.18	25.2	12.3	0.28	654	48.9	0.05
K291841		1.95	31.0	1.45	3.12	0.05	0.11	<0.01	0.011	0.18	26.4	10.0	0.20	627	57.4	0.04
K291842		1.70	21.4	1.51	3.14	0.06	0.18	<0.01	0.014	0.17	136.5	8.1	0.17	477	36.8	0.05
K291843		1.40	24.1	1.77	3.33	0.05	0.19	<0.01	0.010	0.15	22.2	10.1	0.23	454	30.1	0.05
K291844		1.33	21.0	1.63	2.81	<0.05	0.18	<0.01	0.014	0.18	21.6	6.7	0.16	785	57.5	0.05
K291845		1.27	25.4	1.60	3.64	0.05	0.27	<0.01	0.014	0.17	26.1	11.3	0.26	476	23.7	0.06
K291846		1.71	38.7	2.14	4.96	0.07	0.16	<0.01	0.012	0.16	27.8	14.1	0.35	438	29.4	0.05
K291847		3.11	32.6	2.20	4.49	0.06	0.14	<0.01	0.021	0.17	28.0	11.4	0.25	804	60.7	0.04
K291848		0.41	241	4.26	1.28	<0.05	0.03	0.01	1.955	0.09	8.4	1.5	0.02	28500	130.5	0.01
K291849		1.24	380	3.05	5.38	0.07	0.17	<0.01	0.008	0.03	17.2	4.3	0.07	88	1.45	0.16

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
K291827		0.93	2.1	1090	348	25.6	<0.001	0.02	2.91	1.3	<0.2	0.8	31.5	<0.01	<0.01	15.8
K291828		0.05	0.6	1020	>10000	9.0	0.001	1.87	1775	2.0	4.8	2.7	2.7	<0.01	0.12	3.3
K291829		0.23	2.9	420	247	19.7	<0.001	0.02	3.67	2.1	<0.2	0.3	9.3	<0.01	<0.01	16.1
K291830		0.21	1.9	60	3520	1.5	<0.001	0.08	36.6	0.2	<0.2	0.4	2.5	<0.01	0.08	0.3
K291831		0.07	0.2	50	41.2	12.7	<0.001	0.56	0.43	0.4	1.0	<0.2	7.2	<0.01	0.10	1.4
K291832		0.06	0.3	20	140.5	14.9	<0.001	0.23	1.37	0.2	0.7	0.2	4.0	<0.01	0.11	1.9
K291833		0.12	1.0	20	33.7	1.3	<0.001	0.04	0.44	0.1	<0.2	<0.2	2.1	<0.01	0.10	<0.2
K291834		0.05	0.8	200	>10000	14.7	<0.001	1.65	1295	1.6	0.2	3.5	124.5	<0.01	0.55	6.6
K291835		0.05	0.5	280	>10000	48.1	<0.001	2.05	262	0.6	<0.2	1.1	339	<0.01	0.12	3.3
K291836		0.07	1.0	590	>10000	26.5	<0.001	2.72	1100	5.7	0.2	1.1	250	<0.01	0.08	7.1
K291837		<0.05	0.7	330	758	20.7	0.004	0.10	4.65	0.6	0.2	<0.2	32.3	<0.01	0.25	18.9
K291838		0.45	4.1	590	1060	23.1	<0.001	0.05	15.25	1.5	<0.2	0.3	26.1	<0.01	<0.01	19.3
K291839		0.77	2.8	690	39.2	18.4	<0.001	0.01	0.47	1.9	<0.2	0.5	19.4	<0.01	<0.01	20.6
K291840		0.71	3.3	710	47.3	21.4	0.001	0.01	0.81	1.8	0.3	0.4	17.9	<0.01	0.01	22.2
K291841		0.21	2.7	630	18.1	22.1	<0.001	0.01	0.37	1.6	0.5	0.2	18.8	<0.01	0.01	20.4
K291842		0.38	2.5	550	25.9	18.7	0.001	0.01	0.50	1.5	<0.2	0.3	16.4	<0.01	0.01	24.6
K291843		0.86	2.5	650	17.4	17.3	<0.001	0.01	0.31	1.6	0.3	0.4	32.5	<0.01	0.01	21.2
K291844		0.76	2.3	640	20.0	23.0	<0.001	0.01	0.38	1.7	0.2	0.4	17.2	<0.01	<0.01	22.1
K291845		1.02	2.8	650	12.9	19.2	<0.001	0.01	0.28	1.6	<0.2	0.6	20.7	<0.01	<0.01	28.6
K291846		1.14	3.6	810	18.8	19.0	<0.001	0.01	0.32	2.4	0.3	0.9	53.4	<0.01	0.02	24.2
K291847		0.69	4.2	760	20.5	25.6	0.001	0.01	0.35	2.4	0.5	0.5	45.4	<0.01	0.01	24.1
K291848		0.06	3.8	90	743	7.2	0.001	0.07	6.92	0.7	0.3	0.2	39.9	<0.01	0.03	3.4
K291849		0.46	4.3	730	7.4	1.3	0.002	1.53	0.20	0.8	3.3	0.5	53.5	<0.01	0.81	2.6

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 25-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198339

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	Ag-OG46	Pb-OG46	Zn-OG46	Ag-GRA21	Pb-VOL70
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr	Ag	Pb	Zn	Ag	Pb
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	%
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5	1	0.001	0.001	5	0.01
K291827		0.153	0.17	2.17	68	7.70	8.53	90	3.0					
K291828		<0.005	0.22	17.15	9	8.39	0.56	708	1.0	336	16.95			
K291829		0.012	0.21	2.49	9	0.54	5.25	20	1.4					
K291830		0.011	0.02	0.73	4	0.29	0.28	18	<0.5					
K291831		<0.005	0.10	0.09	1	0.08	0.50	2	0.8					
K291832		<0.005	0.08	0.13	2	0.44	0.82	5	0.6					
K291833		0.005	<0.02	0.07	2	<0.05	0.06	2	<0.5					
K291834		<0.005	0.24	5.20	11	0.51	0.94	984	0.8	708	9.21			
K291835		<0.005	0.59	2.11	8	5.09	0.41	270	0.9	134	4.80			
K291836		<0.005	0.45	11.70	24	1.10	1.29	638	1.6	426	8.58			
K291837		<0.005	0.18	8.86	2	1.00	2.12	10	4.2					
K291838		0.031	0.22	2.71	26	1.13	5.90	66	3.5					
K291839		0.057	0.17	1.54	32	0.72	5.85	27	4.6					
K291840		0.050	0.22	1.95	31	0.40	5.05	31	3.9					
K291841		0.013	0.21	2.59	21	0.46	5.23	26	3.6					
K291842		0.021	0.22	2.38	23	2.47	5.19	29	4.5					
K291843		0.048	0.17	1.96	31	0.46	5.58	36	5.1					
K291844		0.041	0.22	2.21	29	0.31	4.91	33	4.7					
K291845		0.070	0.21	2.34	32	9.60	4.97	23	6.2					
K291846		0.097	0.16	2.35	45	2.14	5.80	30	3.6					
K291847		0.043	0.23	4.93	38	1.36	5.83	37	4.5					
K291848		<0.005	0.20	6.21	8	0.29	4.93	184	1.0					
K291849		0.147	0.10	0.82	16	0.14	10.95	4	3.7					

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Project: CN

Finalized Date: 25-SEP-2019
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CERTIFICATE OF ANALYSIS WH19198339

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

LABORATORY ADDRESSES

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

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

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

Ag-GRA21	Ag-OG46	Au-AA24	ME-MS41
ME-OG46	Pb-OG46	Pb-VOL70	Zn-OG46

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Finalized Date: 1-SEP-2019
Account: RCM

CERTIFICATE WH19198379

Project: CN

This report is for 200 Soil samples submitted to our lab in Whitehorse, YT, Canada on 12-AUG-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE	

SAMPLE PREPARATION

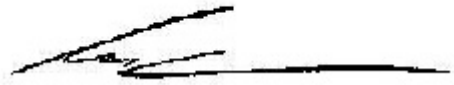
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

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

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

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 1-SEP-2019
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CERTIFICATE OF ANALYSIS WH19198379

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY11001		0.42	0.007	0.06	1.93	35.4	<0.02	<10	120	1.04	0.22	0.18	0.32	46.1	10.9	27
YY11002		0.36	0.003	0.71	2.44	145.0	<0.02	<10	220	1.04	2.94	0.20	1.40	53.4	9.3	50
YY11003		0.46	0.001	0.07	2.04	11.8	<0.02	<10	130	0.52	0.20	0.12	0.22	27.6	6.7	26
YY11004		0.25	<0.001	0.06	0.73	7.9	<0.02	<10	40	0.17	0.17	0.07	0.10	10.60	2.6	13
YY11005		0.41	0.002	0.05	2.02	24.9	<0.02	<10	140	1.02	0.25	0.23	0.14	35.3	7.5	28
YY11006		0.45	0.004	0.03	2.02	15.2	<0.02	<10	150	1.07	0.17	0.24	0.31	30.3	15.5	25
YY11007		0.35	0.003	0.08	2.29	10.8	<0.02	<10	140	0.57	0.18	0.13	0.35	22.1	7.9	31
YY11008		0.42	0.002	0.16	1.95	11.5	<0.02	<10	90	0.51	0.25	0.08	0.43	21.8	5.1	25
YY11009		0.30	0.005	0.27	1.72	14.9	<0.02	<10	110	0.40	0.43	0.09	0.15	20.5	5.1	24
YY11010		0.33	0.003	0.15	1.67	31.2	<0.02	<10	120	0.65	0.35	0.20	0.43	25.3	7.3	25
YY11011		0.33	0.004	2.65	2.10	407	<0.02	<10	290	0.78	1.25	0.21	1.99	31.7	7.8	29
YY11012		0.45	0.005	0.95	1.77	205	<0.02	<10	160	0.70	0.58	0.22	1.16	30.1	8.8	29
YY11013		0.30	0.001	0.49	1.19	81.0	0.05	<10	90	0.28	0.40	0.13	0.92	17.80	3.9	24
YY11014		0.35	0.004	1.42	1.64	123.5	<0.02	<10	180	0.56	0.47	0.18	0.90	19.25	5.3	26
YY11015		0.39	0.013	1.44	2.12	342	<0.02	<10	180	0.85	0.73	0.24	1.46	23.2	6.8	28
YY11016		0.34	0.009	6.95	2.28	255	<0.02	<10	200	0.87	0.62	0.34	1.83	33.0	17.3	27
YY11017		0.32	0.007	2.41	2.12	249	<0.02	<10	180	0.80	0.57	0.32	1.87	29.5	19.2	26
YY11018		0.27	0.007	3.62	2.35	324	<0.02	<10	220	0.93	0.90	0.42	2.36	27.7	8.5	22
YY11019		0.33	0.010	3.43	2.50	336	<0.02	<10	240	1.03	0.74	0.42	1.77	33.2	10.3	24
YY11020		0.27	0.003	1.14	1.02	134.0	<0.02	<10	60	0.21	0.26	0.20	0.53	14.10	3.5	9
YY11021		0.20	0.005	0.63	1.03	23.2	<0.02	<10	100	0.26	0.19	0.17	0.46	15.75	3.7	17
YY11022		0.28	0.001	0.12	1.27	9.1	<0.02	<10	80	0.32	0.22	0.13	0.21	20.4	5.1	22
YY11023		0.27	0.001	0.30	1.84	27.1	<0.02	<10	150	0.63	0.22	0.18	0.24	23.7	7.3	27
YY11024		0.24	<0.001	0.13	1.70	13.8	<0.02	<10	150	0.65	0.20	0.10	0.26	27.4	5.3	23
YY11025		0.29	0.001	0.08	1.02	5.7	<0.02	<10	40	0.18	0.17	0.05	0.06	13.20	2.4	14
YY11026		0.27	<0.001	0.09	1.53	15.8	<0.02	<10	90	0.59	0.20	0.10	0.17	15.75	4.8	17
YY11027		0.23	<0.001	0.09	0.84	6.2	<0.02	<10	80	0.39	0.13	0.09	0.15	12.00	2.6	14
YY11028		0.35	0.003	0.18	1.92	44.3	<0.02	<10	160	0.73	0.24	0.21	0.38	28.2	7.7	28
YY11029		0.26	0.005	0.31	2.39	58.1	<0.02	<10	230	1.22	0.35	0.22	0.40	35.6	9.5	31
YY11030		0.47	0.002	0.14	2.44	66.0	<0.02	<10	200	1.39	0.27	0.22	0.33	37.8	10.4	37
YY11031		0.26	<0.001	0.18	1.01	8.5	<0.02	<10	60	0.23	0.15	0.07	0.13	13.60	2.0	12
YY11032		0.42	0.003	0.10	2.12	30.3	<0.02	<10	150	0.78	0.35	0.15	0.27	33.5	8.9	31
YY11033		0.33	0.002	0.30	2.06	37.8	<0.02	<10	200	0.86	0.46	0.24	0.40	32.6	7.7	26
YY11034		0.43	0.007	0.07	2.31	27.2	<0.02	<10	130	0.83	0.24	0.18	0.30	33.4	9.1	29
YY11035		0.39	0.002	0.13	2.39	23.2	<0.02	<10	100	0.71	0.28	0.11	0.27	30.8	8.4	27
YY11036		0.42	0.005	0.19	2.02	40.9	0.03	<10	140	0.77	0.54	0.18	0.23	35.5	8.0	26
YY11037		0.40	0.005	0.65	2.52	144.5	<0.02	<10	180	1.26	2.08	0.12	0.47	46.1	9.1	34
YY11038		0.46	0.004	0.51	1.91	59.5	<0.02	<10	120	0.96	2.33	0.22	0.36	47.3	8.7	26
YY11039		0.39	0.005	0.15	2.31	59.6	<0.02	<10	100	0.53	0.44	0.12	0.25	28.0	8.3	31
YY11040		0.43	0.017	0.74	2.23	373	<0.02	<10	240	0.97	5.98	0.25	0.60	83.2	9.6	36

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CERTIFICATE OF ANALYSIS WH19198379

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY11001		2.75	22.2	3.27	7.05	0.08	0.04	0.03	0.026	0.20	24.8	21.1	0.51	281	1.91	0.02
YY11002		4.99	51.5	3.64	9.92	0.10	0.04	0.03	0.042	0.50	27.7	30.0	0.82	209	2.94	0.02
YY11003		1.61	16.8	2.91	8.35	0.05	0.02	0.08	0.023	0.10	14.3	18.6	0.39	230	1.70	0.01
YY11004		0.81	9.5	1.33	4.02	<0.05	<0.02	0.03	0.010	0.04	5.5	3.9	0.14	76	1.01	0.02
YY11005		2.49	21.9	3.03	6.84	0.07	0.03	0.03	0.024	0.16	17.9	16.7	0.55	192	1.34	0.01
YY11006		3.87	21.4	2.86	6.91	0.09	0.04	0.02	0.024	0.26	14.9	22.5	0.59	395	1.47	0.02
YY11007		1.39	17.7	2.93	6.61	<0.05	0.02	0.07	0.025	0.07	10.4	17.1	0.43	285	1.34	0.01
YY11008		1.33	13.8	3.16	8.52	<0.05	0.02	0.04	0.022	0.04	10.9	14.2	0.26	186	1.63	0.01
YY11009		3.00	15.5	3.07	10.45	<0.05	0.03	0.02	0.022	0.09	10.8	12.6	0.31	169	2.16	0.01
YY11010		1.88	21.5	2.40	6.06	0.05	0.02	0.03	0.022	0.09	12.8	13.6	0.43	263	1.17	0.02
YY11011		2.94	30.6	3.33	8.61	0.05	0.02	0.05	0.051	0.13	17.0	16.3	0.47	335	2.50	0.02
YY11012		1.87	29.8	2.68	6.01	0.06	0.02	0.04	0.040	0.12	15.5	16.3	0.49	392	1.79	0.02
YY11013		1.68	17.9	1.73	5.00	<0.05	<0.02	0.03	0.025	0.07	9.3	9.1	0.30	178	1.19	0.01
YY11014		2.19	40.2	1.97	6.07	0.05	<0.02	0.04	0.034	0.08	9.5	11.6	0.43	172	1.51	0.02
YY11015		2.81	47.4	2.59	7.69	0.05	<0.02	0.05	0.045	0.11	12.5	16.8	0.48	506	3.59	0.02
YY11016		2.22	82.6	2.92	7.69	0.06	<0.02	0.07	0.111	0.11	16.4	16.3	0.53	1360	3.25	0.02
YY11017		2.33	57.0	2.79	7.94	0.05	0.02	0.07	0.048	0.12	15.7	16.9	0.55	954	4.39	0.02
YY11018		2.46	42.1	2.88	8.28	0.08	0.02	0.07	0.065	0.10	15.7	17.3	0.48	619	3.25	0.02
YY11019		3.27	51.4	2.81	8.55	0.08	0.02	0.09	0.062	0.08	19.0	18.4	0.45	740	3.23	0.02
YY11020		1.58	12.0	1.52	4.44	<0.05	<0.02	0.04	0.027	0.04	7.5	5.9	0.15	251	0.94	0.02
YY11021		0.96	9.7	1.56	5.92	<0.05	0.02	0.05	0.022	0.07	7.6	6.7	0.23	146	0.90	0.02
YY11022		0.98	11.1	2.11	7.34	0.05	0.02	0.05	0.020	0.07	9.4	9.1	0.27	174	1.58	0.01
YY11023		1.53	15.9	2.49	7.06	0.05	0.02	0.03	0.025	0.08	11.6	14.7	0.45	342	1.50	0.02
YY11024		1.50	14.7	2.16	6.23	0.05	0.02	0.06	0.024	0.05	13.8	9.9	0.28	170	1.57	0.02
YY11025		0.94	8.0	1.65	6.34	<0.05	0.02	0.03	0.017	0.03	6.4	4.8	0.11	114	0.93	0.02
YY11026		1.22	11.9	1.90	5.88	<0.05	0.02	0.06	0.019	0.05	7.4	9.5	0.22	203	1.29	0.02
YY11027		0.93	9.7	1.15	3.78	<0.05	<0.02	0.03	0.015	0.05	5.6	4.6	0.14	85	0.88	0.02
YY11028		1.56	18.2	2.61	6.81	0.06	0.02	0.04	0.031	0.08	13.9	15.6	0.45	337	1.68	0.02
YY11029		2.60	26.4	3.14	8.92	0.07	0.02	0.04	0.038	0.13	16.8	20.9	0.55	450	1.81	0.02
YY11030		3.02	23.4	3.22	8.10	0.08	0.04	0.04	0.036	0.14	18.6	27.9	0.68	389	1.46	0.01
YY11031		0.79	8.6	1.15	4.63	<0.05	<0.02	0.05	0.014	0.03	6.6	3.8	0.10	69	0.89	0.02
YY11032		1.79	20.6	3.04	7.68	0.07	0.03	0.03	0.029	0.09	16.7	17.4	0.47	350	1.97	0.01
YY11033		2.29	27.8	2.87	7.92	0.07	0.02	0.05	0.031	0.11	16.7	16.2	0.47	240	2.22	0.02
YY11034		1.99	21.6	3.04	6.97	0.07	0.06	0.04	0.032	0.12	16.7	19.8	0.48	290	1.43	0.02
YY11035		1.74	19.2	3.02	7.68	0.05	0.02	0.06	0.035	0.07	14.5	18.0	0.36	275	1.49	0.02
YY11036		1.70	22.5	2.74	7.06	0.06	0.02	0.04	0.029	0.09	16.9	14.7	0.41	245	1.37	0.02
YY11037		3.65	32.6	4.30	11.05	0.09	0.05	0.06	0.046	0.12	22.8	19.5	0.47	273	3.26	0.02
YY11038		2.45	25.6	3.43	6.38	0.08	0.03	0.04	0.068	0.14	25.0	17.5	0.48	299	1.37	0.02
YY11039		1.16	19.2	2.94	7.46	0.05	0.03	0.05	0.029	0.06	13.0	16.0	0.39	286	1.77	0.01
YY11040		3.35	69.9	4.61	10.20	0.13	0.04	0.04	0.063	0.24	41.2	23.1	0.58	178	3.78	0.02

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 1-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198379

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY11001		3.42	20.1	620	18.1	31.3	<0.001	0.05	3.13	4.5	0.7	1.8	16.9	0.01	0.02	12.8
YY11002		3.42	24.4	630	135.5	68.3	<0.001	0.06	23.5	7.1	0.6	2.6	24.5	<0.01	0.04	19.7
YY11003		3.26	17.0	330	11.4	19.1	<0.001	0.03	0.76	3.5	0.3	1.4	13.0	0.01	0.03	6.2
YY11004		0.82	6.4	340	5.9	5.9	<0.001	0.03	0.51	0.8	0.3	0.5	9.4	<0.01	0.03	0.5
YY11005		2.47	18.1	590	12.3	27.7	<0.001	0.01	0.97	4.6	0.4	1.3	23.8	<0.01	0.03	9.3
YY11006		2.23	22.0	790	18.3	37.7	<0.001	0.02	0.69	5.1	<0.2	2.3	20.5	<0.01	0.03	6.0
YY11007		1.44	20.6	440	11.1	12.7	<0.001	0.04	0.59	3.0	0.4	1.1	13.9	0.01	0.04	2.0
YY11008		1.79	12.8	300	15.9	9.2	<0.001	0.02	0.65	2.5	0.3	1.1	10.4	0.01	0.04	2.7
YY11009		2.45	12.6	330	24.4	15.4	<0.001	0.03	0.74	3.2	0.2	2.2	13.7	<0.01	0.05	3.1
YY11010		1.32	16.7	700	26.4	14.4	<0.001	0.03	0.75	2.9	0.2	1.4	17.4	<0.01	0.04	2.4
YY11011		1.52	20.8	670	572	26.0	<0.001	0.08	9.16	3.4	0.3	1.7	25.7	<0.01	0.05	3.4
YY11012		1.20	19.2	670	171.5	19.7	<0.001	0.04	3.00	3.8	0.2	1.1	19.3	<0.01	0.04	4.0
YY11013		0.87	12.2	500	90.2	13.0	<0.001	0.03	1.46	1.7	0.2	0.6	14.0	<0.01	0.03	0.8
YY11014		0.75	17.9	710	86.8	12.4	<0.001	0.06	1.40	1.8	0.4	0.6	21.4	<0.01	0.06	0.3
YY11015		1.22	16.2	720	124.0	24.2	<0.001	0.05	2.76	2.9	0.5	1.0	32.6	<0.01	0.03	1.3
YY11016		1.72	15.7	790	881	23.2	<0.001	0.04	6.99	4.2	0.8	1.1	48.9	<0.01	0.03	3.2
YY11017		2.08	15.5	840	285	25.8	<0.001	0.05	2.74	3.8	0.6	1.0	45.9	<0.01	0.03	3.6
YY11018		1.73	13.7	840	465	22.1	0.001	0.04	5.20	3.3	0.6	0.7	70.9	<0.01	0.02	4.8
YY11019		1.46	17.6	810	363	20.1	<0.001	0.05	4.05	3.6	0.3	0.6	69.3	<0.01	0.04	4.4
YY11020		0.96	4.6	450	145.5	7.0	<0.001	0.02	1.48	1.2	0.2	0.3	45.5	0.01	0.02	1.4
YY11021		1.46	7.9	550	39.1	9.0	<0.001	0.04	0.44	1.7	0.3	0.9	21.9	<0.01	0.02	0.7
YY11022		1.86	13.4	380	11.7	9.2	<0.001	0.03	0.45	2.5	0.8	1.0	14.0	<0.01	0.05	1.8
YY11023		1.13	16.5	570	18.7	16.6	<0.001	0.04	0.50	2.7	0.4	1.0	19.8	<0.01	0.03	0.8
YY11024		1.09	13.2	700	14.1	10.2	<0.001	0.07	0.43	1.7	0.5	0.7	14.2	<0.01	0.04	0.3
YY11025		1.21	6.2	270	8.3	4.6	<0.001	0.03	0.27	1.1	<0.2	0.6	7.8	<0.01	0.04	0.5
YY11026		1.37	10.1	450	12.1	8.4	<0.001	0.03	0.37	1.9	0.2	0.6	11.5	0.01	0.03	1.7
YY11027		0.53	7.9	490	8.2	8.3	<0.001	0.04	0.24	0.9	0.6	0.5	13.2	<0.01	0.03	<0.2
YY11028		1.23	18.8	730	21.7	15.6	<0.001	0.03	0.66	2.9	0.6	1.6	18.4	<0.01	0.03	1.6
YY11029		1.59	22.3	730	33.1	22.7	<0.001	0.04	1.00	4.2	0.5	1.9	22.9	<0.01	0.05	3.0
YY11030		2.01	26.2	720	22.6	23.0	<0.001	0.02	0.87	5.2	0.8	1.9	18.6	<0.01	0.04	6.5
YY11031		0.58	5.5	330	7.7	4.3	<0.001	0.03	0.29	0.7	0.5	0.6	9.7	<0.01	0.03	<0.2
YY11032		1.60	20.9	560	17.1	17.7	0.001	0.02	0.90	4.1	0.4	1.5	16.6	<0.01	0.03	4.3
YY11033		1.39	19.9	800	23.3	20.8	<0.001	0.08	1.34	3.0	0.4	2.1	30.0	<0.01	0.04	1.8
YY11034		1.77	21.4	570	14.7	20.4	<0.001	0.04	0.86	4.2	0.4	2.3	18.6	<0.01	0.04	7.7
YY11035		1.87	20.1	530	14.8	13.2	0.001	0.04	0.69	3.5	0.4	2.0	14.1	0.01	0.04	4.2
YY11036		1.61	19.8	690	18.5	13.6	<0.001	0.06	0.79	3.2	0.5	1.6	18.5	<0.01	0.04	2.6
YY11037		2.33	23.3	530	58.5	29.5	<0.001	0.06	1.48	5.1	0.6	2.7	21.3	<0.01	0.08	7.8
YY11038		1.76	20.0	800	140.0	20.3	<0.001	0.12	1.07	3.6	0.5	1.6	21.4	<0.01	0.03	8.3
YY11039		1.70	22.1	360	15.6	10.7	0.001	0.04	0.75	3.3	0.5	0.9	13.3	0.01	0.04	2.6
YY11040		2.51	23.0	790	82.3	45.0	<0.001	0.07	3.06	7.3	0.6	2.4	32.0	<0.01	0.04	22.3

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North Vancouver BC V7H 0A7
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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY11001		0.122	0.22	2.51	55	4.56	8.80	66	1.6
YY11002		0.152	0.47	8.05	68	1.99	14.60	103	1.8
YY11003		0.099	0.15	1.17	62	2.79	4.29	44	1.0
YY11004		0.049	0.09	0.58	33	0.21	1.61	21	0.5
YY11005		0.106	0.21	2.36	50	0.58	9.11	53	1.5
YY11006		0.149	0.26	1.75	63	1.48	8.62	70	1.9
YY11007		0.082	0.13	0.91	62	0.96	4.13	59	0.8
YY11008		0.089	0.14	0.79	78	0.44	3.63	52	0.8
YY11009		0.130	0.17	0.73	85	1.06	2.83	49	1.4
YY11010		0.092	0.12	1.33	52	1.14	6.91	80	1.0
YY11011		0.084	0.20	1.71	64	1.70	7.63	130	0.8
YY11012		0.085	0.15	2.21	53	1.83	6.95	140	0.7
YY11013		0.060	0.12	0.94	40	0.45	2.92	95	<0.5
YY11014		0.045	0.16	2.12	42	0.32	5.94	136	<0.5
YY11015		0.053	0.19	5.57	55	0.74	6.58	266	<0.5
YY11016		0.076	0.23	6.00	58	0.59	8.76	298	0.5
YY11017		0.098	0.24	6.14	62	1.30	7.25	247	0.8
YY11018		0.085	0.19	5.54	62	1.42	5.97	283	0.7
YY11019		0.074	0.18	8.29	58	1.50	8.30	252	0.8
YY11020		0.050	0.07	1.39	34	1.62	2.12	119	<0.5
YY11021		0.073	0.09	0.96	40	0.38	2.85	41	0.6
YY11022		0.090	0.10	0.69	58	0.27	3.03	36	1.0
YY11023		0.076	0.15	1.61	57	0.31	5.49	61	0.7
YY11024		0.053	0.12	1.87	45	0.22	8.38	39	0.8
YY11025		0.069	0.09	0.41	47	0.17	1.44	21	0.9
YY11026		0.066	0.11	0.93	42	0.24	3.07	38	1.2
YY11027		0.040	0.08	1.13	28	0.15	2.88	28	<0.5
YY11028		0.072	0.14	1.72	55	0.74	7.39	78	0.8
YY11029		0.082	0.20	2.73	62	1.17	10.35	100	0.9
YY11030		0.115	0.20	2.45	64	0.88	10.30	97	1.7
YY11031		0.038	0.09	0.85	26	0.26	2.17	17	<0.5
YY11032		0.084	0.16	1.84	64	0.92	7.52	60	1.1
YY11033		0.063	0.16	2.73	55	2.34	10.45	67	0.8
YY11034		0.093	0.21	1.41	56	2.53	6.86	56	2.4
YY11035		0.083	0.15	1.29	60	6.60	5.21	47	0.9
YY11036		0.080	0.17	1.70	57	1.28	6.34	50	0.8
YY11037		0.097	0.27	2.91	81	1.45	12.45	68	1.5
YY11038		0.098	0.28	1.91	57	1.54	8.39	82	1.3
YY11039		0.086	0.15	0.94	68	0.30	4.00	59	1.1
YY11040		0.100	0.51	8.12	62	0.55	18.55	92	1.8

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY11041		0.53	0.007	0.36	2.13	212	<0.02	<10	170	0.99	9.00	0.21	0.23	53.1	7.3	30
YY11042		0.45	0.006	0.07	2.08	25.0	<0.02	<10	110	0.90	0.24	0.32	0.20	36.9	8.6	29
YY11043		0.43	0.004	0.05	1.99	12.2	<0.02	<10	90	0.73	0.19	0.20	0.20	31.8	8.3	25
YY11044		0.36	0.003	0.10	2.93	25.2	<0.02	<10	180	1.29	0.32	0.23	0.47	38.7	11.9	32
YY11045		0.40	0.003	0.33	3.29	34.9	<0.02	<10	210	1.74	0.35	0.19	0.32	48.0	12.0	38
YY11046		0.37	0.006	0.20	2.68	33.1	<0.02	<10	210	1.41	0.33	0.32	0.29	40.9	8.2	29
YY11047		0.54	0.007	0.09	1.98	20.3	<0.02	<10	130	0.80	0.21	0.28	0.23	40.4	8.9	28
YY11048		0.43	0.003	0.19	1.78	31.4	<0.02	<10	130	0.69	0.33	0.19	0.27	39.7	8.2	32
YY11049		0.33	0.002	0.20	1.41	28.9	<0.02	<10	100	0.45	0.25	0.18	0.20	25.2	4.9	23
YY11050		0.29	0.005	1.82	1.77	143.0	<0.02	<10	110	1.41	0.38	0.28	0.26	57.7	6.2	26
YY11051		0.36	0.003	0.70	2.00	66.4	<0.02	<10	130	0.79	0.29	0.15	0.12	34.8	19.7	27
YY11052		0.51	0.003	0.12	1.52	15.8	<0.02	<10	130	0.51	0.18	0.26	0.23	34.4	7.3	27
YY11053		0.35	0.001	0.16	1.81	17.5	<0.02	<10	160	0.65	0.22	0.23	0.28	34.0	9.2	28
YY11054		0.38	0.002	0.15	1.78	11.3	<0.02	<10	130	0.60	0.19	0.17	0.22	27.8	7.9	28
YY11055		0.40	0.002	0.19	1.75	8.7	<0.02	<10	170	0.51	0.23	0.19	0.17	28.2	6.3	26
YY11056		0.37	0.004	0.26	1.91	8.5	<0.02	<10	180	0.84	0.34	0.23	0.21	34.5	8.5	31
YY11057		0.50	0.002	0.17	1.99	8.3	<0.02	<10	120	0.99	0.37	0.24	0.20	31.1	7.0	29
YY11058		0.38	0.002	0.25	1.97	7.1	<0.02	<10	160	1.03	0.27	0.25	0.31	36.6	6.2	28
YY11059		0.44	0.001	0.20	1.94	27.0	<0.02	<10	90	1.08	0.24	0.26	0.52	34.6	7.9	26
YY11060		0.48	0.002	0.19	1.87	8.4	<0.02	<10	100	1.38	0.41	0.22	0.47	44.8	8.4	21
YY11061		0.49	0.002	0.06	1.86	5.6	<0.02	<10	80	0.81	0.18	0.30	0.18	30.1	7.3	21
YY11062		0.43	0.002	0.04	1.99	8.6	<0.02	<10	70	0.59	0.21	0.12	0.16	27.7	6.6	25
YY11063		0.40	0.003	0.06	2.10	10.1	<0.02	<10	90	0.70	0.21	0.11	0.20	26.3	7.2	27
YY11064		0.41	0.002	0.07	2.14	9.4	<0.02	<10	100	0.70	0.24	0.12	0.27	28.0	7.2	27
YY11065		0.48	0.004	0.06	1.86	8.2	<0.02	<10	80	0.76	0.22	0.19	0.22	31.2	6.6	25
YY11066		0.49	0.003	0.09	1.87	9.5	<0.02	<10	130	1.07	0.27	0.32	0.18	50.6	7.7	24
YY11067		0.47	0.006	0.15	2.10	10.8	<0.02	<10	140	1.05	0.28	0.28	0.22	40.7	8.9	28
YY11068		0.47	0.003	0.11	1.63	9.3	<0.02	<10	90	0.51	0.36	0.16	0.17	29.4	5.7	27
YY11069		0.53	0.002	0.23	2.14	9.0	<0.02	<10	130	0.98	0.49	0.23	0.18	39.5	8.1	29
YY11070		0.33	0.002	0.09	1.31	6.5	<0.02	<10	70	0.31	0.29	0.07	0.11	21.9	3.2	18
YY11071		0.37	0.003	0.08	1.82	8.3	<0.02	<10	90	0.73	0.26	0.15	0.22	35.1	6.5	23
YY11072		0.40	0.002	0.06	1.37	6.9	<0.02	<10	60	0.31	0.20	0.09	0.12	22.6	3.8	20
YY11073		0.32	0.001	0.34	1.23	5.2	<0.02	<10	80	0.49	0.17	0.10	0.17	20.5	3.3	16
YY11074		0.36	0.009	0.09	1.03	7.1	<0.02	<10	90	0.37	0.32	0.13	0.21	33.8	4.0	17
YY11075		0.40	0.002	0.17	2.08	10.6	<0.02	<10	150	0.88	0.27	0.23	0.21	37.3	7.4	29
YY11076		0.23	0.003	0.22	2.01	9.8	<0.02	<10	150	0.83	0.27	0.24	0.16	36.2	6.8	27
YY11077		0.50	0.004	0.13	1.95	18.8	<0.02	<10	150	0.87	0.21	0.29	0.26	42.6	9.7	29
YY11078		0.43	0.003	0.11	1.99	30.1	<0.02	<10	140	0.92	0.22	0.17	0.27	36.1	7.3	26
YY11079		0.33	0.003	0.19	1.92	42.6	<0.02	<10	150	0.78	0.23	0.24	0.48	44.1	8.0	29
YY11080		0.34	0.002	0.20	1.82	26.0	<0.02	<10	190	0.70	0.22	0.17	0.28	37.4	6.9	27

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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY11041		2.48	35.8	2.71	8.09	0.10	0.03	0.05	0.085	0.18	26.4	22.6	0.54	152	1.27	0.01
YY11042		1.82	18.9	2.75	6.47	0.08	0.04	0.04	0.029	0.10	18.5	17.3	0.51	190	0.77	0.01
YY11043		1.38	17.5	2.68	6.37	0.06	0.03	0.05	0.028	0.08	15.6	16.8	0.48	310	1.01	0.01
YY11044		2.31	18.4	3.44	8.35	0.08	0.06	0.06	0.060	0.08	18.4	24.1	0.63	324	1.14	0.02
YY11045		2.69	28.9	3.70	9.97	0.10	0.09	0.08	0.045	0.09	25.7	23.1	0.65	350	1.44	0.01
YY11046		3.70	19.6	3.27	9.94	0.08	0.03	0.17	0.047	0.14	19.7	21.9	0.60	305	1.29	0.02
YY11047		2.06	17.6	2.83	7.65	0.09	0.03	0.02	0.031	0.12	19.2	17.8	0.59	325	1.13	0.01
YY11048		1.78	16.5	2.84	7.72	0.08	0.02	0.04	0.033	0.11	18.8	14.1	0.51	435	1.69	0.02
YY11049		1.50	11.0	1.97	6.21	0.06	<0.02	0.05	0.024	0.09	12.5	11.0	0.43	187	1.02	0.02
YY11050		1.63	18.9	1.99	6.78	0.10	0.02	0.07	0.036	0.08	24.6	18.5	0.36	392	1.56	0.02
YY11051		1.67	15.9	2.65	7.39	0.07	<0.02	0.04	0.033	0.08	16.7	19.1	0.49	1140	1.15	0.01
YY11052		1.48	14.4	2.45	6.64	0.08	0.02	0.02	0.024	0.11	17.6	15.1	0.49	277	1.23	0.01
YY11053		1.65	16.0	2.50	7.22	0.06	0.02	0.05	0.030	0.08	17.1	17.1	0.45	401	1.24	0.01
YY11054		1.60	14.3	2.57	7.33	0.06	0.02	0.03	0.028	0.08	14.2	17.2	0.49	400	1.19	0.01
YY11055		1.72	19.1	2.45	7.07	0.06	0.02	0.03	0.030	0.11	14.1	17.6	0.51	224	1.06	0.01
YY11056		2.00	22.1	2.56	7.21	0.06	0.02	0.05	0.034	0.15	16.4	18.5	0.52	301	1.26	0.02
YY11057		2.15	18.9	2.50	7.15	0.08	0.02	0.02	0.032	0.18	15.7	20.8	0.60	227	0.92	0.01
YY11058		2.04	15.0	2.30	7.52	0.07	0.02	0.06	0.032	0.14	19.1	19.1	0.54	195	0.87	0.01
YY11059		1.75	14.4	2.48	6.99	0.06	0.04	0.04	0.030	0.10	17.8	19.6	0.47	320	1.05	0.01
YY11060		3.21	11.3	2.49	7.02	0.08	<0.02	0.02	0.028	0.13	23.1	20.9	0.46	391	1.21	0.01
YY11061		1.65	10.7	1.93	5.99	0.06	0.03	0.01	0.019	0.09	15.4	18.1	0.48	253	0.66	0.01
YY11062		1.23	15.1	2.38	7.57	0.05	0.03	0.04	0.023	0.07	14.1	14.1	0.35	200	1.32	0.01
YY11063		1.53	15.1	3.04	8.18	0.06	0.02	0.05	0.026	0.07	13.4	20.1	0.35	231	1.42	0.01
YY11064		1.57	23.6	2.76	7.83	0.06	<0.02	0.02	0.028	0.07	13.3	17.0	0.39	254	1.28	0.01
YY11065		2.14	14.1	2.42	7.67	0.08	0.03	0.02	0.027	0.12	15.8	19.2	0.51	213	0.92	0.01
YY11066		2.10	16.8	2.67	6.87	0.09	0.04	0.01	0.026	0.18	23.8	20.7	0.52	314	0.83	0.01
YY11067		1.99	17.5	2.77	7.19	0.07	0.04	0.02	0.029	0.17	21.3	22.3	0.58	367	0.96	0.01
YY11068		1.50	12.5	2.33	7.44	0.07	0.02	0.02	0.025	0.11	14.7	13.9	0.44	191	1.36	0.01
YY11069		1.84	17.5	2.87	7.22	0.07	0.04	0.04	0.033	0.12	18.8	24.5	0.57	254	1.10	0.01
YY11070		1.25	12.8	1.90	7.75	<0.05	0.02	0.04	0.021	0.05	11.1	6.5	0.16	92	1.42	0.01
YY11071		1.95	13.4	2.61	7.98	0.07	0.02	0.04	0.030	0.11	16.9	18.9	0.43	220	1.16	0.01
YY11072		1.03	9.9	2.00	7.59	<0.05	0.03	0.03	0.023	0.05	11.8	8.5	0.25	120	1.16	0.01
YY11073		1.22	10.5	1.58	4.41	0.05	<0.02	0.06	0.023	0.04	11.7	6.1	0.20	91	1.04	0.02
YY11074		1.39	9.4	1.81	5.80	0.05	<0.02	0.02	0.022	0.09	17.4	7.8	0.28	131	1.49	0.01
YY11075		2.03	19.8	2.81	7.57	0.07	0.02	0.06	0.040	0.15	19.1	20.5	0.59	246	1.20	0.01
YY11076		2.12	19.5	2.64	7.60	0.07	0.03	0.04	0.033	0.15	18.8	18.7	0.55	204	1.16	0.02
YY11077		2.31	19.3	2.90	7.66	0.08	0.03	0.04	0.040	0.15	21.3	22.3	0.57	374	1.27	0.01
YY11078		1.94	19.8	2.63	7.22	0.06	0.02	0.04	0.035	0.10	17.3	17.5	0.43	313	1.48	0.02
YY11079		1.97	19.9	2.87	7.60	0.08	0.02	0.04	0.038	0.12	22.6	19.6	0.49	327	1.48	0.02
YY11080		1.88	14.7	2.54	7.85	0.07	0.03	0.04	0.031	0.10	18.6	17.3	0.41	281	1.29	0.01

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 1-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198379

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY11041		3.46	18.4	550	56.2	34.7	0.001	0.02	2.39	5.0	0.2	2.5	18.6	<0.01	0.03	9.1
YY11042		1.98	22.3	810	17.6	16.3	<0.001	0.02	0.51	3.8	0.5	1.1	21.9	0.01	0.03	6.7
YY11043		1.84	22.0	560	11.1	15.5	<0.001	0.03	0.46	2.8	0.2	1.2	16.0	0.01	0.03	3.9
YY11044		2.45	27.9	730	74.4	17.5	<0.001	0.02	0.60	4.8	0.5	1.8	19.9	0.01	0.05	8.2
YY11045		2.27	27.2	480	48.4	16.5	0.001	0.02	0.57	7.3	0.8	1.9	23.7	0.01	0.05	10.2
YY11046		2.59	22.2	750	57.9	24.9	<0.001	0.05	0.58	4.0	0.8	2.7	34.8	0.01	0.06	4.4
YY11047		1.95	22.9	820	25.8	19.0	<0.001	0.02	0.56	3.6	0.6	2.5	20.8	<0.01	0.03	5.6
YY11048		1.43	21.1	670	45.8	19.9	<0.001	0.04	0.60	2.7	0.4	1.7	19.2	<0.01	0.03	2.1
YY11049		1.09	15.3	490	27.8	14.2	<0.001	0.03	0.40	1.9	0.5	1.0	19.1	<0.01	0.04	0.9
YY11050		0.79	16.8	900	72.5	11.0	<0.001	0.09	0.91	1.8	0.8	1.2	29.9	<0.01	0.02	0.6
YY11051		1.13	16.2	600	34.3	13.2	0.001	0.05	0.50	2.7	0.5	1.5	15.7	<0.01	0.03	1.4
YY11052		1.34	17.1	710	19.6	17.9	<0.001	0.02	0.46	2.5	0.2	1.1	20.7	<0.01	0.04	2.0
YY11053		1.23	18.3	790	22.5	16.9	<0.001	0.05	0.50	2.6	0.3	0.8	20.9	<0.01	0.03	1.4
YY11054		1.30	16.5	550	15.8	15.9	0.001	0.04	0.39	2.5	0.6	0.9	18.6	<0.01	0.03	1.2
YY11055		1.42	16.6	640	14.6	21.0	<0.001	0.04	0.44	2.9	0.5	1.0	17.8	<0.01	0.02	1.5
YY11056		1.50	19.2	770	14.3	23.1	<0.001	0.05	0.44	3.1	0.5	1.1	23.2	<0.01	0.03	1.7
YY11057		1.76	18.3	760	23.3	26.7	<0.001	0.02	0.37	3.4	0.2	1.1	17.9	<0.01	0.03	4.0
YY11058		1.61	17.8	670	29.4	23.6	<0.001	0.05	0.41	3.3	0.6	1.1	27.6	<0.01	0.03	2.4
YY11059		1.90	17.5	790	81.6	15.1	<0.001	0.02	0.95	3.2	0.6	0.8	21.7	<0.01	0.04	5.9
YY11060		1.78	15.1	730	49.2	22.0	<0.001	0.03	0.63	2.7	0.3	1.1	22.7	<0.01	0.07	8.4
YY11061		1.56	14.9	780	15.3	12.4	0.001	0.01	0.38	2.6	0.6	0.7	18.2	0.01	0.03	7.0
YY11062		1.77	16.2	350	10.3	10.2	<0.001	0.02	0.53	3.0	0.5	0.9	13.4	0.01	0.03	3.1
YY11063		1.76	17.6	420	13.1	13.0	<0.001	0.03	0.59	3.0	0.7	1.0	13.5	0.01	0.04	3.2
YY11064		1.13	17.4	520	12.4	11.1	<0.001	0.04	0.62	1.9	0.5	0.9	15.1	<0.01	0.03	0.5
YY11065		2.10	17.4	540	15.5	19.3	<0.001	0.02	0.47	3.1	0.4	1.3	18.7	<0.01	0.03	5.0
YY11066		1.76	18.4	1070	16.7	24.9	0.001	0.02	0.45	3.4	<0.2	1.1	19.4	<0.01	0.03	6.8
YY11067		1.85	20.7	980	19.9	24.7	<0.001	0.01	0.47	3.9	0.2	1.1	20.8	<0.01	0.03	6.3
YY11068		1.65	16.7	470	18.7	19.6	<0.001	0.02	0.41	2.6	0.2	1.0	14.5	<0.01	0.04	2.2
YY11069		1.86	19.7	790	23.2	20.9	<0.001	0.02	0.49	3.6	0.8	1.0	17.4	<0.01	0.03	4.2
YY11070		1.47	9.8	390	15.7	8.6	<0.001	0.04	0.44	1.4	0.5	1.1	9.9	<0.01	0.04	0.6
YY11071		2.33	15.9	510	21.1	19.4	<0.001	0.02	0.45	2.9	0.5	1.1	14.3	<0.01	0.04	3.6
YY11072		2.00	10.4	290	19.1	8.3	<0.001	0.02	0.35	2.3	0.7	1.0	10.3	<0.01	0.03	3.0
YY11073		0.71	7.9	680	28.2	7.5	<0.001	0.07	0.23	1.1	0.3	0.5	14.4	<0.01	0.03	0.2
YY11074		1.33	10.2	420	51.1	13.2	0.001	0.04	0.35	1.6	0.4	0.9	16.5	<0.01	0.02	1.6
YY11075		1.67	19.8	740	17.6	26.4	<0.001	0.04	0.46	3.3	0.7	1.0	21.6	<0.01	0.03	2.5
YY11076		1.70	18.2	740	19.7	25.4	<0.001	0.05	0.43	3.1	0.4	1.0	25.6	<0.01	0.03	2.0
YY11077		1.92	20.9	910	27.7	25.6	0.001	0.03	0.50	3.8	0.6	1.1	22.0	<0.01	0.04	4.8
YY11078		1.33	18.5	750	26.7	16.6	<0.001	0.05	0.56	2.4	0.3	0.9	17.7	<0.01	0.03	1.6
YY11079		1.61	20.7	880	38.0	20.6	<0.001	0.05	0.57	3.2	0.7	0.9	19.6	<0.01	0.03	2.9
YY11080		1.47	15.6	600	43.9	16.9	0.001	0.04	0.58	2.6	0.6	1.0	18.5	<0.01	0.03	1.4

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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VANCOUVER BC V6B 1L8

Finalized Date: 1-SEP-2019
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CERTIFICATE OF ANALYSIS WH19198379

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY11041		0.097	0.35	3.30	49	0.45	11.50	65	1.1
YY11042		0.098	0.17	1.38	52	0.36	9.66	56	2.0
YY11043		0.096	0.15	0.78	53	0.24	6.69	58	1.1
YY11044		0.099	0.21	1.35	63	0.28	8.12	117	2.3
YY11045		0.104	0.25	4.43	72	0.24	13.10	79	4.4
YY11046		0.098	0.23	2.31	61	0.39	10.40	85	1.3
YY11047		0.107	0.18	1.47	57	0.33	9.96	69	1.3
YY11048		0.085	0.18	1.37	58	0.23	8.02	75	0.8
YY11049		0.072	0.15	0.95	40	0.18	5.10	54	0.6
YY11050		0.040	0.17	3.35	38	0.19	24.1	63	<0.5
YY11051		0.070	0.25	2.04	54	0.23	10.25	55	0.5
YY11052		0.095	0.15	1.19	53	0.24	9.11	58	0.7
YY11053		0.076	0.16	1.49	55	0.43	9.42	65	0.8
YY11054		0.081	0.19	1.32	58	0.23	6.71	60	0.8
YY11055		0.085	0.20	1.68	50	0.23	6.81	60	0.8
YY11056		0.083	0.23	2.29	52	0.28	9.80	63	0.9
YY11057		0.098	0.26	1.95	48	0.26	9.15	89	0.8
YY11058		0.074	0.25	2.60	43	0.26	12.25	72	0.7
YY11059		0.079	0.17	1.63	47	0.26	10.45	99	1.2
YY11060		0.060	0.22	3.23	38	0.29	11.70	81	0.5
YY11061		0.064	0.13	1.07	35	0.21	9.99	52	0.7
YY11062		0.086	0.13	0.79	62	0.23	4.85	41	1.0
YY11063		0.082	0.16	1.06	65	0.28	5.93	47	0.8
YY11064		0.062	0.16	1.06	59	0.19	5.54	59	0.6
YY11065		0.094	0.17	1.65	48	0.29	7.65	52	1.0
YY11066		0.090	0.20	2.20	46	0.29	14.20	69	1.2
YY11067		0.094	0.22	2.13	50	0.29	12.45	79	1.2
YY11068		0.093	0.16	1.23	53	0.27	6.15	63	0.7
YY11069		0.085	0.21	2.40	51	0.27	12.05	84	1.2
YY11070		0.071	0.16	0.93	56	0.26	3.94	32	0.8
YY11071		0.094	0.21	1.36	52	0.24	7.21	56	1.0
YY11072		0.085	0.16	0.76	51	0.18	3.40	32	1.3
YY11073		0.037	0.14	2.74	31	0.15	6.58	33	0.6
YY11074		0.071	0.16	1.25	38	0.24	7.14	49	0.5
YY11075		0.093	0.22	2.09	54	0.23	9.51	66	1.1
YY11076		0.093	0.23	2.13	52	0.25	9.74	64	1.2
YY11077		0.105	0.20	1.96	57	0.32	12.15	78	1.1
YY11078		0.069	0.18	2.13	53	0.27	10.10	78	1.0
YY11079		0.084	0.19	2.01	57	0.34	12.75	97	1.1
YY11080		0.087	0.20	1.48	59	0.25	9.93	65	1.1

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY11081		0.52	0.002	0.11	1.86	13.7	<0.02	<10	160	0.96	0.16	0.35	0.33	58.0	8.1	24
YY11082		0.33	0.004	0.36	1.63	60.2	<0.02	<10	130	0.75	0.26	0.21	0.24	38.4	7.0	23
YY11083		0.47	0.005	0.11	1.86	45.9	<0.02	<10	110	0.83	0.32	0.22	0.27	46.7	9.4	30
YY11084		0.31	0.002	0.28	0.96	16.1	<0.02	<10	60	0.37	0.25	0.12	0.26	30.6	3.3	19
YY11085		0.47	0.003	0.28	2.03	96.1	<0.02	<10	120	1.06	0.35	0.27	0.31	50.3	7.2	26
YY11086		0.50	0.003	0.15	1.25	39.5	<0.02	<10	100	0.47	0.23	0.15	0.62	32.9	5.4	25
YY11087		0.32	0.002	0.97	1.21	55.4	<0.02	<10	120	0.90	0.28	0.20	0.44	40.8	3.3	15
YY11088		0.47	0.003	0.33	1.33	132.0	<0.02	<10	70	0.75	0.52	0.20	0.45	43.5	4.5	17
YY11089		0.52	0.004	0.23	1.42	125.5	<0.02	<10	70	0.52	0.66	0.15	0.50	32.2	8.3	27
YY11090		0.39	0.012	0.24	1.80	252	<0.02	<10	70	0.88	0.46	0.31	0.62	45.6	5.3	22
YY11091		0.49	0.001	0.03	2.36	135.5	<0.02	<10	90	1.41	2.71	0.23	0.31	40.8	7.7	16
YY11092		0.44	0.004	0.15	1.93	50.9	<0.02	<10	110	1.13	1.40	0.17	0.43	80.7	8.6	31
YY11093		0.40	0.006	0.28	1.96	22.4	<0.02	<10	130	0.74	1.20	0.14	0.22	58.7	7.2	25
YY11094		0.41	0.001	0.25	1.94	18.4	<0.02	<10	140	0.75	0.74	0.14	0.27	38.8	6.8	25
YY11095		0.48	0.002	0.16	1.88	31.7	<0.02	<10	120	0.73	0.47	0.10	0.27	44.6	6.2	25
YY11096		0.35	0.007	2.17	2.68	202	<0.02	<10	330	1.83	1.29	0.50	1.26	276	11.0	38
YY11097		0.41	0.002	0.24	1.39	45.0	<0.02	<10	70	0.69	0.79	0.13	0.37	59.0	4.4	20
YY11098		0.52	0.004	0.59	1.69	45.6	<0.02	<10	130	0.76	0.35	0.22	0.54	55.8	7.2	25
YY11099		0.43	0.009	2.04	1.91	87.9	<0.02	<10	180	0.65	0.50	0.29	0.89	54.2	5.7	29
YY11100		0.60	0.004	0.28	1.60	63.5	<0.02	<10	150	0.50	0.44	0.27	0.31	42.9	6.8	26
YY11101		0.39	0.006	0.32	1.78	137.0	<0.02	<10	170	0.50	0.37	0.21	0.18	45.8	10.1	30
YY11102		0.41	0.004	0.11	1.64	15.8	<0.02	<10	150	0.47	0.33	0.25	0.15	38.7	8.7	27
YY11103		0.50	0.004	0.18	1.52	20.2	<0.02	<10	160	0.54	0.38	0.26	0.18	46.8	15.4	30
YY11104		0.42	0.003	0.12	1.36	6.4	<0.02	<10	150	0.27	0.20	0.20	0.13	28.7	4.4	27
YY11105		0.48	0.002	0.13	1.34	4.5	<0.02	<10	140	0.35	0.16	0.23	0.15	32.3	5.2	23
YY11106		0.40	0.002	0.11	1.58	4.9	<0.02	<10	140	0.48	0.15	0.21	0.12	42.0	5.3	23
YY11107		0.32	0.003	0.21	1.67	13.0	<0.02	<10	190	0.62	0.19	0.30	0.39	52.2	7.9	25
YY11108		0.36	0.006	0.34	1.46	29.3	<0.02	<10	150	0.59	0.28	0.22	0.40	43.5	5.8	27
YY11109		0.52	0.004	0.20	1.61	20.8	0.14	<10	150	0.65	0.24	0.36	0.35	53.4	9.7	28
YY11110		0.50	0.002	0.20	1.97	10.4	<0.02	<10	140	0.78	0.22	0.25	0.17	51.1	6.4	27
YY11111		0.58	0.003	0.15	1.84	12.0	<0.02	<10	150	0.72	0.28	0.33	0.22	60.0	7.1	26
YY11112		0.38	0.001	0.14	0.98	32.1	<0.02	<10	50	0.34	0.12	0.13	0.10	26.6	3.1	11
YY11113		0.48	0.002	0.10	1.80	9.0	0.02	<10	100	0.62	0.25	0.36	0.12	37.4	6.8	24
YY11114		0.67	0.004	0.17	2.23	10.8	<0.02	<10	140	0.83	0.60	0.36	0.24	37.0	9.4	30
YY11115		0.54	0.005	0.08	1.87	8.4	<0.02	<10	110	0.89	0.22	0.31	0.19	52.9	9.1	28
YY11116		0.44	0.002	0.04	2.10	10.2	<0.02	<10	120	0.72	0.16	0.22	0.13	32.2	11.0	29
YY11117		0.46	0.003	0.04	2.26	8.8	<0.02	<10	150	0.80	0.15	0.30	0.17	41.1	11.1	31
YY11118		0.45	0.003	0.03	2.26	11.5	<0.02	<10	160	0.78	0.18	0.19	0.26	43.3	13.4	31
YY11119		0.47	0.001	0.05	2.03	10.9	<0.02	<10	90	0.68	0.21	0.14	0.23	37.2	8.0	29
YY11120		0.44	0.003	0.07	2.06	13.1	<0.02	<10	80	0.70	3.57	0.14	0.26	36.3	8.0	29

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: CN

Finalized Date: 1-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198379

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY11081		2.47	13.2	2.79	8.05	0.11	0.02	0.02	0.035	0.30	25.9	23.7	0.58	329	1.03	0.01
YY11082		1.82	13.9	2.54	6.67	0.08	0.02	0.04	0.028	0.15	18.2	15.2	0.47	339	1.04	0.01
YY11083		2.04	16.9	2.89	7.83	0.09	0.02	0.03	0.039	0.13	22.5	21.1	0.52	435	1.35	0.01
YY11084		1.38	8.3	1.43	6.21	0.05	0.02	0.06	0.017	0.09	14.4	8.0	0.19	102	1.16	0.01
YY11085		3.20	16.6	2.89	8.18	0.10	0.02	0.06	0.036	0.22	25.1	23.7	0.65	272	1.05	0.01
YY11086		1.41	13.8	2.42	7.15	<0.05	0.02	0.03	0.029	0.06	15.2	13.1	0.31	190	1.37	0.02
YY11087		2.61	13.7	1.55	4.71	0.05	<0.02	0.09	0.025	0.08	23.4	6.5	0.25	106	0.79	0.02
YY11088		2.37	14.0	1.99	6.69	0.05	<0.02	0.02	0.043	0.12	20.5	14.5	0.37	186	0.78	0.01
YY11089		1.71	15.2	2.43	7.57	<0.05	0.02	0.07	0.033	0.11	15.2	11.7	0.41	542	1.46	0.01
YY11090		3.70	16.6	2.41	6.79	0.06	0.02	0.04	0.118	0.11	22.6	18.7	0.53	219	1.14	0.02
YY11091		5.01	21.7	2.74	9.57	<0.05	<0.02	0.03	0.023	0.11	17.2	18.6	0.50	510	8.90	0.01
YY11092		1.59	23.5	3.10	6.86	0.08	0.02	0.06	0.039	0.08	40.0	21.1	0.41	374	2.23	0.02
YY11093		1.28	18.8	2.70	6.62	0.05	0.02	0.04	0.032	0.06	28.3	14.3	0.35	220	1.70	0.02
YY11094		1.40	19.7	3.19	8.61	<0.05	0.02	0.06	0.037	0.06	18.2	19.9	0.32	313	2.08	0.01
YY11095		1.43	16.2	3.04	9.12	0.05	0.02	0.06	0.036	0.06	21.3	14.6	0.27	235	1.99	0.01
YY11096		2.10	43.5	3.73	11.10	0.43	0.05	0.08	0.062	0.15	153.5	22.8	0.55	558	3.98	0.02
YY11097		1.45	18.4	2.51	7.99	0.07	0.02	0.06	0.036	0.09	35.0	11.3	0.21	369	2.07	0.01
YY11098		1.67	18.6	1.85	6.62	0.11	0.02	0.06	0.035	0.08	34.9	16.2	0.45	238	0.94	0.02
YY11099		1.99	21.3	1.79	6.94	0.07	0.03	0.08	0.045	0.13	30.1	17.6	0.51	190	0.63	0.02
YY11100		1.58	16.5	2.12	6.66	0.06	0.02	0.03	0.031	0.10	21.5	15.8	0.53	171	0.75	0.02
YY11101		1.47	15.7	3.05	6.96	0.05	0.02	0.06	0.034	0.08	22.7	15.3	0.49	313	2.20	0.02
YY11102		1.86	11.3	2.47	6.61	0.06	0.02	0.09	0.030	0.13	18.7	16.6	0.55	196	0.93	0.02
YY11103		1.89	11.1	2.83	6.62	0.05	0.02	0.05	0.026	0.14	21.6	14.4	0.48	779	1.62	0.01
YY11104		1.33	8.4	1.90	5.73	<0.05	0.02	0.04	0.017	0.08	14.0	11.4	0.45	117	0.72	0.02
YY11105		1.23	10.0	1.56	5.33	<0.05	0.03	0.05	0.021	0.08	15.5	11.5	0.42	138	0.61	0.02
YY11106		1.69	12.0	1.81	6.22	0.05	0.02	0.04	0.022	0.10	20.5	13.5	0.48	122	0.62	0.02
YY11107		1.87	15.1	2.42	6.46	0.06	0.02	0.09	0.029	0.14	25.1	14.7	0.52	317	0.82	0.02
YY11108		1.67	16.3	2.23	6.70	<0.05	0.02	0.06	0.026	0.10	22.1	11.9	0.40	226	1.11	0.02
YY11109		1.93	16.9	2.60	6.64	0.07	0.02	0.04	0.036	0.17	25.8	17.5	0.61	378	0.85	0.02
YY11110		2.99	15.9	2.78	8.03	0.07	0.02	0.03	0.032	0.19	26.3	19.3	0.63	189	0.96	0.01
YY11111		2.95	17.4	2.55	6.92	0.08	0.03	0.02	0.030	0.22	30.6	19.2	0.64	173	0.57	0.02
YY11112		1.42	11.4	1.41	4.38	<0.05	0.02	0.03	0.018	0.07	15.7	6.0	0.23	100	0.49	0.03
YY11113		4.25	10.8	2.35	7.10	0.07	0.02	0.04	0.024	0.32	19.6	20.1	0.83	192	0.50	0.02
YY11114		5.43	17.0	3.38	8.78	0.06	0.02	0.05	0.078	0.44	19.0	26.0	1.03	278	0.52	0.01
YY11115		3.13	19.2	2.90	7.59	0.08	0.02	0.02	0.030	0.21	26.8	21.9	0.67	346	0.82	0.02
YY11116		1.64	22.4	2.75	5.89	<0.05	0.05	0.04	0.027	0.07	14.5	16.4	0.55	339	0.78	0.02
YY11117		3.67	19.1	3.23	7.42	0.08	0.05	0.03	0.032	0.29	20.8	23.2	0.87	401	0.73	0.02
YY11118		1.48	23.1	3.10	6.33	0.05	0.06	0.03	0.029	0.09	19.6	17.3	0.61	451	0.92	0.02
YY11119		1.66	18.1	2.88	6.91	<0.05	0.02	0.05	0.029	0.07	16.9	15.9	0.45	302	1.14	0.01
YY11120		2.25	15.3	3.04	7.66	<0.05	0.03	0.05	0.032	0.07	17.7	19.4	0.47	308	1.16	0.01

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: CN

Finalized Date: 1-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198379

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY11081		2.20	16.4	1140	21.1	38.2	<0.001	0.02	0.38	4.2	0.2	1.8	21.4	<0.01	0.02	8.4
YY11082		1.29	14.8	820	31.9	20.6	<0.001	0.06	0.45	3.0	0.3	1.5	17.5	<0.01	0.02	1.8
YY11083		1.70	20.6	800	52.9	22.0	0.001	0.02	0.53	3.3	0.3	1.6	17.7	<0.01	0.02	4.5
YY11084		1.78	10.5	550	30.9	13.9	<0.001	0.05	0.28	1.5	<0.2	3.0	13.7	<0.01	0.01	1.9
YY11085		2.22	17.5	910	86.6	32.1	<0.001	0.02	0.57	3.5	0.2	1.9	18.4	<0.01	0.03	8.8
YY11086		1.56	16.0	410	58.0	10.4	<0.001	0.03	0.52	1.9	0.5	0.9	14.7	<0.01	0.02	1.4
YY11087		0.75	9.0	900	66.2	14.8	<0.001	0.10	0.40	0.7	0.3	0.7	22.9	<0.01	0.01	0.3
YY11088		1.70	10.1	720	192.0	20.3	<0.001	0.02	0.80	1.7	0.3	3.2	13.1	<0.01	0.01	3.7
YY11089		1.55	16.5	730	74.9	19.1	<0.001	0.05	0.66	1.9	0.4	1.8	13.9	<0.01	0.02	1.5
YY11090		1.99	15.1	940	190.5	17.5	<0.001	0.02	2.28	2.8	0.5	1.4	20.3	<0.01	0.01	7.9
YY11091		1.57	11.4	730	72.5	12.9	<0.001	<0.01	0.87	2.5	0.3	2.2	11.3	<0.01	0.39	13.9
YY11092		2.46	22.8	470	52.5	14.7	<0.001	0.02	1.98	3.6	0.5	1.1	14.3	<0.01	0.09	9.8
YY11093		2.05	16.9	360	38.0	11.0	<0.001	0.02	0.90	3.1	0.3	0.9	14.7	0.01	0.08	5.6
YY11094		2.47	16.3	440	24.9	13.1	<0.001	0.04	0.84	2.4	0.5	1.3	14.4	<0.01	0.05	2.7
YY11095		2.92	14.9	340	22.3	14.6	<0.001	0.02	0.90	2.8	0.5	1.4	12.8	0.01	0.03	4.8
YY11096		2.93	28.2	880	190.5	25.5	0.001	0.07	6.25	6.9	1.4	1.8	43.3	0.01	0.09	12.2
YY11097		2.74	10.7	510	29.6	16.0	<0.001	0.04	1.60	2.5	0.4	1.7	9.9	<0.01	0.04	7.1
YY11098		1.24	15.2	690	72.3	16.2	<0.001	0.05	1.19	3.0	0.6	1.1	18.1	<0.01	0.01	2.3
YY11099		1.48	19.1	850	168.5	21.5	<0.001	0.04	1.71	3.6	0.3	1.1	21.7	<0.01	0.03	4.0
YY11100		2.09	16.6	650	72.0	20.4	<0.001	0.02	0.87	3.8	0.5	1.2	19.4	<0.01	0.01	7.9
YY11101		1.48	16.6	790	56.8	14.4	<0.001	0.04	0.71	3.1	0.6	0.9	17.6	<0.01	0.01	3.3
YY11102		1.74	17.4	710	20.4	23.0	<0.001	0.02	0.43	2.9	0.3	1.1	18.1	<0.01	0.01	4.4
YY11103		1.63	17.2	920	18.9	22.0	<0.001	0.04	0.47	2.4	<0.2	0.8	18.6	<0.01	0.02	3.0
YY11104		1.22	14.6	660	12.7	13.7	<0.001	0.04	0.33	1.9	0.4	1.0	16.1	<0.01	0.01	1.2
YY11105		1.20	14.1	710	11.8	14.0	<0.001	0.04	0.35	2.2	0.2	0.6	17.8	<0.01	0.02	1.8
YY11106		1.46	14.4	670	15.0	19.8	<0.001	0.04	0.34	2.5	0.5	1.0	16.4	<0.01	0.01	2.0
YY11107		1.43	15.9	780	29.5	24.5	<0.001	0.06	0.46	2.3	<0.2	1.0	26.2	<0.01	0.01	1.6
YY11108		1.29	16.2	780	76.6	21.6	<0.001	0.08	0.58	2.1	<0.2	1.1	21.6	<0.01	0.02	1.2
YY11109		1.76	20.7	880	66.5	26.1	0.001	0.02	0.62	3.9	0.6	1.0	23.9	<0.01	0.01	7.1
YY11110		1.90	17.1	990	19.3	33.0	<0.001	0.05	0.48	3.2	0.2	1.2	18.4	<0.01	0.02	3.8
YY11111		2.08	18.4	840	25.7	32.9	<0.001	0.01	0.57	4.5	0.4	0.8	20.4	<0.01	0.02	11.6
YY11112		0.87	6.2	520	29.2	9.0	<0.001	0.04	0.41	1.0	<0.2	0.4	13.0	<0.01	0.01	0.7
YY11113		1.89	15.8	980	29.3	39.8	<0.001	0.01	0.48	3.6	0.2	0.8	19.0	<0.01	0.01	5.6
YY11114		2.01	19.9	1070	120.5	52.8	<0.001	0.02	0.63	4.3	0.5	0.9	19.2	<0.01	0.01	5.5
YY11115		1.95	21.3	970	12.0	30.3	<0.001	0.01	0.54	3.8	0.5	1.1	18.8	<0.01	0.01	7.8
YY11116		1.47	27.3	550	11.3	9.6	0.001	0.02	0.57	3.3	0.7	0.5	23.0	<0.01	0.03	3.4
YY11117		1.94	23.9	870	22.8	43.0	<0.001	0.02	0.48	4.6	<0.2	0.8	18.6	<0.01	0.02	5.4
YY11118		1.27	26.5	640	12.0	12.6	<0.001	0.03	0.62	3.9	0.5	0.5	18.1	<0.01	0.04	3.7
YY11119		1.22	20.9	500	23.7	11.6	<0.001	0.03	0.68	2.4	0.4	0.7	13.0	<0.01	0.02	1.8
YY11120		1.73	19.1	470	43.2	12.9	<0.001	0.03	0.66	2.9	0.4	0.8	12.5	<0.01	0.04	3.5

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	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY11081		0.124	0.26	2.16	52	0.23	15.35	74	1.0
YY11082		0.083	0.20	2.17	55	0.33	9.79	53	1.0
YY11083		0.094	0.20	1.64	57	0.32	10.75	70	0.8
YY11084		0.070	0.13	1.01	33	0.27	5.96	34	0.8
YY11085		0.106	0.25	2.04	49	0.41	13.05	72	0.9
YY11086		0.076	0.14	0.85	57	0.25	6.48	52	1.1
YY11087		0.028	0.13	1.85	27	0.15	10.45	50	0.5
YY11088		0.069	0.22	1.39	35	0.20	9.53	94	0.5
YY11089		0.080	0.14	0.93	53	0.24	5.87	79	0.9
YY11090		0.071	0.27	1.47	39	0.18	12.35	89	1.0
YY11091		0.018	0.25	2.82	35	0.18	12.35	54	0.5
YY11092		0.079	0.20	3.06	57	0.36	17.70	77	1.1
YY11093		0.072	0.16	2.11	56	0.30	12.70	52	0.9
YY11094		0.066	0.18	1.57	64	0.27	6.83	59	0.8
YY11095		0.078	0.16	1.89	70	0.26	8.38	49	0.9
YY11096		0.060	0.24	14.45	62	0.36	117.5	154	1.1
YY11097		0.059	0.17	3.20	54	0.28	13.20	65	0.8
YY11098		0.065	0.21	3.22	43	0.18	20.9	87	0.9
YY11099		0.077	0.24	3.42	38	0.24	15.65	149	1.2
YY11100		0.094	0.19	2.09	46	0.46	10.45	86	1.3
YY11101		0.072	0.20	2.56	72	0.19	10.40	71	0.9
YY11102		0.093	0.24	1.41	50	0.18	9.02	55	1.1
YY11103		0.087	0.21	1.55	53	0.24	11.35	52	0.8
YY11104		0.072	0.16	1.14	40	0.16	6.00	44	0.9
YY11105		0.072	0.15	1.33	35	0.16	7.17	41	1.0
YY11106		0.082	0.19	1.68	41	0.18	10.20	45	1.0
YY11107		0.085	0.21	1.93	51	0.20	14.10	61	1.2
YY11108		0.077	0.18	2.12	52	0.25	10.70	80	1.2
YY11109		0.103	0.21	1.96	51	0.25	14.55	88	1.4
YY11110		0.099	0.26	2.21	53	0.23	13.15	59	1.2
YY11111		0.117	0.25	1.89	46	0.16	15.90	61	1.6
YY11112		0.056	0.10	1.06	31	0.12	6.76	30	1.1
YY11113		0.151	0.37	1.01	48	0.21	10.30	56	1.3
YY11114		0.162	0.44	1.65	71	0.32	10.25	123	1.3
YY11115		0.111	0.25	1.55	56	0.31	14.85	61	1.6
YY11116		0.090	0.12	0.87	55	0.19	6.93	58	2.0
YY11117		0.152	0.35	1.18	66	0.28	10.45	62	2.1
YY11118		0.082	0.14	0.93	59	0.19	7.40	62	2.6
YY11119		0.079	0.14	0.79	61	0.23	6.52	59	0.9
YY11120		0.089	0.17	0.91	64	0.59	6.35	70	1.2

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: CN

Finalized Date: 1-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198379

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY11121		0.42	0.005	0.54	1.99	81.4	<0.02	<10	140	0.75	0.27	0.26	0.39	43.1	8.5	29
YY11122		0.34	<0.001	0.14	0.67	5.1	<0.02	<10	20	0.13	0.06	0.05	0.12	5.27	1.5	5
YY11123		0.46	0.003	0.14	1.69	121.0	<0.02	<10	130	0.58	0.47	0.13	0.42	40.2	6.6	26
YY11124		0.40	0.003	0.15	1.51	19.2	<0.02	<10	140	0.65	0.32	0.47	0.47	44.7	6.9	25
YY11125		0.52	0.001	0.13	2.36	13.3	<0.02	<10	150	1.11	0.65	0.27	0.15	80.2	13.1	29
YY11126		0.49	0.004	0.44	2.01	46.7	<0.02	<10	160	0.84	0.43	0.30	0.41	78.3	12.6	29
YY11127		0.44	0.002	0.03	1.69	7.1	<0.02	<10	70	0.62	0.65	0.18	0.19	64.8	7.0	25
YY11128		0.39	0.002	0.05	2.22	11.8	<0.02	<10	120	0.53	0.24	0.17	0.14	35.7	10.3	30
YY11129		0.40	0.003	0.06	2.05	9.8	<0.02	<10	120	0.55	0.27	0.19	0.12	57.3	10.3	29
YY11130		0.36	0.003	0.07	1.58	6.1	<0.02	<10	90	0.31	0.34	0.11	0.13	37.5	5.1	25
YY11131		0.40	0.001	0.04	1.98	10.7	<0.02	<10	90	0.60	0.43	0.16	0.30	49.1	7.7	30
YY11132		0.43	0.001	0.06	1.89	9.4	0.03	<10	70	0.54	0.26	0.13	0.21	38.4	6.1	26
YY11133		0.44	0.005	0.11	1.96	9.8	<0.02	<10	190	0.61	0.32	0.22	0.29	65.1	9.7	28
YY11134		0.45	0.001	0.04	1.75	10.1	<0.02	<10	110	0.68	0.46	0.31	0.27	79.3	9.0	24
YY11135		0.33	0.001	0.14	0.77	5.1	<0.02	<10	50	0.18	0.18	0.09	0.20	20.0	2.6	13
YY11136		0.41	0.002	0.66	1.93	52.1	<0.02	<10	200	0.76	1.41	0.26	0.39	80.6	6.6	25
YY11137		0.42	0.002	0.44	2.34	45.4	<0.02	<10	190	0.58	0.93	0.19	0.30	50.7	7.0	37
YY11138		0.43	0.001	0.14	1.86	45.1	<0.02	<10	80	0.59	0.64	0.19	0.56	51.9	6.3	27
YY11139		0.37	0.002	0.70	2.00	26.4	<0.02	<10	150	0.59	1.72	0.37	0.25	41.0	5.6	35
YY11140		0.43	0.006	0.17	2.01	19.7	<0.02	<10	190	0.69	0.38	0.29	0.34	78.4	6.6	34
YY11141		0.36	0.003	0.40	2.13	34.0	<0.02	<10	130	0.81	0.44	0.27	0.21	86.7	7.4	31
YY11142		0.35	0.003	0.06	2.17	13.1	<0.02	<10	120	0.54	0.25	0.14	0.29	43.2	8.3	29
YY11143		0.43	0.002	0.14	2.25	16.0	<0.02	<10	100	0.59	0.46	0.16	0.23	26.4	10.1	30
YY11144		0.46	0.001	0.07	1.94	26.1	<0.02	<10	150	0.75	0.26	0.28	0.17	106.0	7.1	28
YY11145		0.43	0.001	0.05	1.86	8.9	<0.02	<10	100	0.82	0.41	0.28	0.18	130.5	8.4	26
YY11146		0.56	0.004	0.09	2.30	10.6	<0.02	<10	110	1.20	0.30	0.27	0.25	86.2	12.0	30
YY11147		0.34	0.001	0.15	1.17	20.6	<0.02	<10	60	0.35	0.26	0.12	0.22	30.6	4.3	17
YY11148		0.50	0.003	0.15	1.76	23.3	<0.02	<10	110	0.69	0.66	0.32	0.22	67.2	8.5	26
YY11149		0.32	0.002	0.41	1.54	24.6	<0.02	<10	160	0.63	0.63	0.33	0.28	105.5	7.6	22
YY11150		0.48	0.002	0.26	1.53	25.6	<0.02	<10	140	0.51	0.53	0.26	0.30	59.4	12.9	25
YY11151		0.46	0.002	0.15	1.53	55.5	<0.02	<10	100	0.47	0.34	0.20	0.34	33.1	10.9	27
YY11152		0.57	0.004	0.37	1.73	61.4	<0.02	<10	130	0.50	0.37	0.31	0.33	43.9	7.7	28
YY11153		0.38	0.002	0.84	1.59	63.6	<0.02	<10	130	0.51	0.34	0.31	0.30	50.4	5.6	27
YY11154		0.36	0.002	0.31	1.35	7.6	<0.02	<10	190	0.62	0.20	0.21	0.19	46.9	15.0	22
YY11155		0.47	0.005	0.12	2.74	19.4	<0.02	<10	180	1.26	0.46	0.18	0.23	59.2	14.7	37
YY11156		0.57	0.003	0.04	1.27	9.4	<0.02	<10	100	0.45	0.22	0.33	0.18	42.4	6.5	25
YY11157		0.34	0.002	0.42	1.64	15.3	<0.02	<10	220	0.89	0.33	0.42	0.62	87.1	7.5	23
YY11158		0.34	0.002	0.12	1.63	17.8	<0.02	<10	80	0.61	0.31	0.24	0.24	39.2	7.7	29
YY11159		0.38	0.011	0.51	1.97	165.0	<0.02	<10	200	0.93	0.61	0.28	0.30	52.8	15.3	28
YY11160		0.42	0.004	0.07	1.43	13.5	<0.02	<10	70	0.51	0.45	0.27	0.54	35.1	7.7	26

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY11121		3.14	27.4	2.99	7.76	0.05	0.02	0.05	0.039	0.13	22.1	18.2	0.54	386	1.40	0.02
YY11122		0.38	9.1	0.82	2.42	<0.05	<0.02	0.04	0.009	0.02	2.6	0.9	0.04	37	0.70	0.03
YY11123		5.73	13.1	3.06	7.64	0.05	<0.02	0.07	0.038	0.20	17.8	17.0	0.47	649	1.72	0.01
YY11124		4.57	18.1	2.54	6.14	0.06	0.02	0.05	0.035	0.18	22.6	17.1	0.55	366	1.18	0.02
YY11125		10.25	26.6	3.58	7.74	0.11	0.02	0.04	0.044	0.39	39.4	30.4	0.97	505	1.26	0.02
YY11126		3.92	25.6	3.18	6.77	0.10	0.02	0.05	0.040	0.23	36.5	22.7	0.67	567	1.57	0.02
YY11127		3.19	18.9	2.93	7.45	0.06	0.02	0.04	0.037	0.14	20.8	18.4	0.44	358	0.92	0.01
YY11128		1.12	21.4	3.01	5.64	0.05	0.03	0.04	0.030	0.08	15.6	16.8	0.53	384	1.13	0.01
YY11129		2.66	20.4	3.27	6.66	0.07	0.03	0.04	0.032	0.18	24.5	19.3	0.61	399	0.93	0.01
YY11130		2.06	13.5	2.80	7.81	0.05	0.03	0.08	0.030	0.19	16.2	10.5	0.37	312	1.28	0.01
YY11131		2.44	16.0	3.64	8.44	0.06	0.04	0.04	0.048	0.16	22.6	22.2	0.55	339	1.39	0.01
YY11132		1.67	14.0	3.22	7.55	0.05	0.03	0.05	0.040	0.12	17.6	19.8	0.40	258	1.29	0.01
YY11133		1.63	20.3	2.79	6.07	0.07	0.03	0.08	0.031	0.12	29.6	18.3	0.56	441	1.07	0.01
YY11134		2.81	18.4	2.60	6.43	0.10	0.03	0.04	0.034	0.24	43.2	22.9	0.65	342	1.04	0.01
YY11135		1.26	7.6	1.39	4.01	<0.05	<0.02	0.05	0.014	0.08	11.6	5.6	0.20	90	0.83	0.02
YY11136		2.47	19.0	2.73	6.49	0.10	0.02	0.07	0.041	0.14	45.0	16.2	0.47	427	1.20	0.02
YY11137		2.44	16.0	3.37	7.52	0.07	0.02	0.03	0.044	0.08	25.3	20.0	0.54	318	0.86	0.01
YY11138		2.34	16.4	2.87	6.90	0.05	0.02	0.08	0.043	0.09	19.3	20.5	0.44	537	1.63	0.01
YY11139		2.64	17.0	2.37	6.49	0.07	0.03	0.08	0.038	0.11	22.2	17.8	0.56	260	0.88	0.01
YY11140		2.60	21.8	2.51	6.37	0.11	0.06	0.08	0.043	0.12	41.4	19.8	0.52	187	0.62	0.01
YY11141		3.56	25.9	2.71	6.39	0.14	0.04	0.06	0.042	0.11	62.0	17.0	0.54	216	0.87	0.01
YY11142		1.62	17.8	3.14	6.64	0.05	0.02	0.04	0.031	0.06	18.6	15.7	0.45	334	1.22	0.01
YY11143		1.31	16.2	3.12	5.26	<0.05	0.02	0.27	0.033	0.07	11.8	18.9	0.51	398	1.09	0.01
YY11144		2.24	20.3	2.54	6.40	0.11	0.03	0.04	0.032	0.12	51.2	19.9	0.51	280	0.58	0.01
YY11145		3.12	21.2	2.77	6.84	0.12	0.03	0.03	0.035	0.20	53.9	22.3	0.59	471	0.80	0.01
YY11146		4.40	19.8	3.65	9.21	0.09	0.02	0.02	0.060	0.34	37.0	31.8	0.75	493	0.85	0.01
YY11147		1.64	12.7	1.91	4.82	<0.05	0.02	0.06	0.042	0.10	14.2	9.2	0.28	206	1.02	0.02
YY11148		2.37	15.1	2.97	6.79	0.08	0.02	0.03	0.052	0.16	34.3	22.2	0.59	387	1.08	0.01
YY11149		1.91	20.0	2.33	6.44	0.13	0.03	0.07	0.048	0.10	57.7	15.7	0.42	378	1.24	0.02
YY11150		2.31	12.4	2.33	5.99	0.09	0.02	0.04	0.045	0.10	31.0	16.7	0.46	721	1.07	0.01
YY11151		1.65	11.1	2.52	5.57	0.05	<0.02	0.16	0.036	0.09	16.4	16.2	0.43	631	1.30	0.01
YY11152		2.34	14.4	2.42	6.16	0.07	0.02	0.05	0.034	0.18	20.4	19.2	0.59	275	1.00	0.01
YY11153		2.87	12.9	1.81	6.13	0.07	0.02	0.07	0.040	0.13	24.9	16.7	0.50	199	0.99	0.01
YY11154		1.34	10.4	1.66	4.92	0.07	0.02	0.09	0.024	0.06	22.9	10.2	0.32	488	0.88	0.01
YY11155		2.51	23.1	3.89	9.21	0.07	0.04	0.05	0.043	0.15	27.5	27.2	0.63	491	1.44	0.01
YY11156		1.83	13.5	2.33	5.22	0.07	0.04	0.01	0.022	0.15	20.3	15.1	0.53	226	0.73	0.02
YY11157		2.84	17.3	2.38	6.66	0.11	0.04	0.06	0.036	0.13	42.7	16.4	0.48	297	1.07	0.02
YY11158		4.00	13.5	2.99	8.13	0.07	0.03	0.04	0.033	0.25	17.0	22.6	0.60	261	1.09	0.02
YY11159		3.04	21.7	3.20	8.05	0.09	0.02	0.07	0.052	0.13	28.5	19.3	0.55	461	1.94	0.02
YY11160		1.66	14.1	2.67	6.17	0.07	0.04	0.03	0.029	0.13	17.5	19.3	0.52	252	1.04	0.01

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY11121		1.53	19.9	890	118.5	24.6	<0.001	0.06	1.38	2.8	0.8	1.1	21.3	<0.01	0.03	2.0
YY11122		0.26	3.5	350	6.5	2.2	<0.001	0.04	0.38	0.2	<0.2	0.2	9.0	<0.01	0.02	<0.2
YY11123		1.73	12.9	710	87.8	41.4	<0.001	0.09	3.06	1.7	0.4	1.1	13.7	<0.01	0.05	1.4
YY11124		1.60	14.3	770	20.6	33.2	<0.001	0.07	1.04	2.0	0.2	0.9	26.7	<0.01	0.04	1.4
YY11125		1.90	21.5	910	16.5	53.9	<0.001	0.04	0.67	4.1	<0.2	1.1	19.5	<0.01	0.03	11.0
YY11126		1.85	23.2	980	96.8	32.7	<0.001	0.04	1.57	3.5	<0.2	0.9	19.9	<0.01	0.04	7.2
YY11127		1.80	16.2	670	11.2	29.7	<0.001	0.04	0.74	1.8	0.3	1.2	13.2	<0.01	0.04	1.8
YY11128		1.31	25.1	540	10.3	11.8	<0.001	0.03	0.64	3.1	0.4	0.6	16.0	0.01	0.04	2.1
YY11129		2.06	21.6	590	9.2	33.4	<0.001	0.03	0.70	3.6	0.3	1.1	14.3	<0.01	0.04	3.8
YY11130		2.66	11.4	600	11.2	46.0	<0.001	0.06	0.59	2.3	0.3	1.6	10.8	<0.01	0.04	2.2
YY11131		3.21	18.3	520	24.3	31.5	<0.001	0.03	0.79	3.5	0.3	1.3	13.8	<0.01	0.04	6.3
YY11132		2.64	14.9	540	12.1	22.7	<0.001	0.04	0.62	2.7	<0.2	1.1	11.5	0.01	0.05	4.1
YY11133		1.81	19.8	770	10.9	24.8	<0.001	0.06	0.53	3.5	0.2	0.9	18.4	<0.01	0.03	3.9
YY11134		2.27	16.6	1180	19.4	40.4	<0.001	0.03	0.44	2.7	0.2	1.1	15.7	<0.01	0.03	9.2
YY11135		0.97	6.8	410	11.1	15.9	<0.001	0.03	0.30	0.9	<0.2	0.6	9.3	<0.01	0.04	0.5
YY11136		1.16	15.9	1040	51.1	28.5	<0.001	0.08	1.22	2.6	0.3	0.8	21.3	<0.01	0.04	1.5
YY11137		1.30	18.6	720	78.7	20.7	<0.001	0.05	1.30	3.5	0.2	0.9	17.8	<0.01	0.03	2.2
YY11138		1.37	16.8	920	73.5	19.8	<0.001	0.05	1.90	2.1	0.3	0.9	11.4	<0.01	0.04	2.5
YY11139		1.27	19.0	1080	48.3	21.9	<0.001	0.06	1.42	3.5	0.4	0.8	23.7	<0.01	0.03	3.0
YY11140		1.80	19.9	650	39.7	25.1	<0.001	0.02	1.70	5.5	<0.2	0.8	19.6	<0.01	0.03	9.8
YY11141		1.41	19.4	930	49.4	21.0	<0.001	0.06	1.95	4.0	0.4	0.7	17.9	<0.01	0.04	4.3
YY11142		1.59	20.4	370	17.5	13.8	<0.001	0.03	0.76	3.1	0.4	0.7	13.4	0.01	0.05	2.9
YY11143		1.20	23.7	480	28.6	10.3	<0.001	0.04	0.87	2.8	0.4	0.5	15.1	0.01	0.04	2.4
YY11144		1.53	21.1	740	13.2	21.3	<0.001	0.01	4.49	4.6	<0.2	0.8	18.9	<0.01	0.03	9.8
YY11145		2.02	18.8	910	12.2	34.0	<0.001	0.01	0.86	3.9	<0.2	0.9	16.3	<0.01	0.03	11.9
YY11146		2.40	20.3	890	17.3	56.4	<0.001	0.03	1.24	5.4	<0.2	1.9	16.3	<0.01	0.03	8.0
YY11147		1.08	9.0	790	36.0	17.4	<0.001	0.09	2.20	1.2	0.2	0.7	13.3	<0.01	0.03	0.5
YY11148		1.61	16.5	1000	49.1	28.5	<0.001	0.03	2.78	3.1	0.2	1.0	19.5	<0.01	0.02	7.0
YY11149		1.16	14.2	890	56.8	21.5	<0.001	0.08	3.50	2.6	0.3	0.7	25.7	<0.01	0.03	2.0
YY11150		1.14	14.2	960	49.5	19.5	<0.001	0.06	3.07	2.7	<0.2	0.7	19.8	<0.01	0.03	3.0
YY11151		1.29	14.7	820	83.5	16.2	<0.001	0.04	2.20	2.1	<0.2	0.7	15.2	<0.01	0.03	2.6
YY11152		1.80	16.1	1010	80.7	28.3	<0.001	0.03	1.80	3.6	0.3	0.9	18.8	<0.01	0.03	5.5
YY11153		1.48	14.5	1040	170.5	23.2	<0.001	0.06	2.37	2.9	0.4	1.0	18.6	<0.01	0.02	2.9
YY11154		0.80	11.2	1000	23.4	9.0	<0.001	0.11	0.41	1.7	0.4	0.6	21.8	<0.01	0.04	0.5
YY11155		2.26	25.9	770	21.7	25.3	<0.001	0.03	0.69	5.5	0.5	1.2	16.5	<0.01	0.06	9.6
YY11156		1.66	16.4	820	12.9	20.7	<0.001	0.02	0.51	3.0	0.4	0.9	19.7	<0.01	0.02	7.4
YY11157		1.47	14.3	800	34.8	26.0	<0.001	0.09	0.59	2.9	0.4	1.0	33.1	<0.01	0.04	2.2
YY11158		2.39	17.1	640	33.1	42.5	<0.001	0.03	0.66	3.2	0.4	1.7	17.2	<0.01	0.02	6.2
YY11159		1.61	20.0	890	132.5	24.0	<0.001	0.07	0.86	3.3	0.4	1.2	25.8	<0.01	0.07	3.2
YY11160		1.97	19.2	740	40.1	22.0	<0.001	0.03	0.49	2.8	0.5	1.3	19.3	<0.01	0.02	4.7

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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VANCOUVER BC V6B 1L8

Finalized Date: 1-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198379

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY11121		0.084	0.24	2.18	57	0.25	13.80	83	1.3
YY11122		0.030	0.05	0.47	20	0.07	1.09	16	<0.5
YY11123		0.092	0.33	1.60	58	0.30	7.97	97	0.5
YY11124		0.081	0.28	2.14	48	0.24	14.30	83	0.8
YY11125		0.105	0.41	3.09	46	0.26	19.20	87	0.7
YY11126		0.102	0.30	2.64	51	0.36	18.05	86	0.9
YY11127		0.091	0.24	1.28	52	0.52	10.05	66	0.7
YY11128		0.080	0.12	0.81	60	0.21	6.47	58	1.2
YY11129		0.121	0.25	1.22	61	0.22	12.55	57	1.3
YY11130		0.132	0.29	1.22	67	0.20	6.95	48	1.1
YY11131		0.136	0.29	1.50	66	0.25	9.59	81	1.6
YY11132		0.117	0.20	1.21	64	0.33	7.02	49	1.3
YY11133		0.093	0.24	2.68	56	0.24	15.60	66	1.2
YY11134		0.111	0.38	3.19	42	0.24	19.05	90	1.0
YY11135		0.058	0.13	1.07	31	0.17	4.11	34	0.6
YY11136		0.062	0.25	4.11	47	0.22	16.75	128	0.7
YY11137		0.073	0.26	2.61	63	0.33	9.84	117	0.9
YY11138		0.067	0.21	1.67	52	0.22	7.71	119	0.8
YY11139		0.074	0.19	2.99	49	0.26	9.98	105	1.2
YY11140		0.109	0.22	3.71	60	0.32	19.60	81	2.5
YY11141		0.084	0.24	4.20	53	0.31	22.6	79	1.5
YY11142		0.096	0.17	0.99	68	0.29	5.81	61	1.0
YY11143		0.073	0.11	0.84	57	0.21	4.25	91	0.9
YY11144		0.093	0.19	1.94	46	0.19	20.2	67	1.3
YY11145		0.108	0.27	2.40	48	0.22	22.0	73	1.1
YY11146		0.140	0.40	1.72	65	0.27	16.85	87	0.9
YY11147		0.057	0.15	0.98	40	0.15	6.11	58	0.9
YY11148		0.097	0.23	2.47	54	0.28	16.50	97	1.0
YY11149		0.062	0.18	3.18	47	0.24	25.8	84	1.1
YY11150		0.067	0.18	2.54	43	0.18	13.35	82	0.7
YY11151		0.080	0.18	1.48	52	0.27	7.14	69	0.7
YY11152		0.103	0.28	1.73	46	0.21	10.75	90	0.8
YY11153		0.074	0.26	2.79	32	0.32	13.55	80	0.7
YY11154		0.042	0.16	2.42	32	0.57	12.00	37	0.5
YY11155		0.112	0.25	2.29	77	0.37	14.00	71	1.9
YY11156		0.111	0.19	1.14	51	0.22	10.15	51	1.4
YY11157		0.071	0.22	2.64	49	0.30	24.7	65	1.0
YY11158		0.135	0.35	1.08	57	0.26	8.54	63	1.1
YY11159		0.083	0.27	2.77	60	0.61	13.60	99	1.1
YY11160		0.108	0.15	0.89	53	0.26	7.88	60	1.3

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Project: CN

Finalized Date: 1-SEP-2019
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CERTIFICATE OF ANALYSIS WH19198379

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY11161		0.45	0.002	0.05	1.63	14.7	<0.02	<10	80	0.51	0.31	0.21	0.19	33.1	7.1	25
YY11162		0.49	0.003	0.07	1.76	85.6	<0.02	<10	100	0.61	0.32	0.29	0.23	54.2	8.2	25
YY11163		0.51	0.001	0.10	2.17	16.7	<0.02	<10	220	0.99	0.19	0.38	0.28	47.2	10.5	44
YY11164		0.54	0.003	0.13	2.18	19.4	<0.02	<10	140	0.92	0.25	0.26	0.24	66.4	11.5	29
YY11165		0.48	0.001	0.22	2.25	84.5	<0.02	<10	110	1.56	0.29	0.23	1.69	101.0	10.5	22
YY11166		0.53	0.002	0.12	2.27	22.3	<0.02	<10	190	1.01	0.22	0.25	0.30	64.2	11.4	29
YY11167		0.45	0.001	0.08	2.19	13.8	<0.02	<10	110	0.95	0.20	0.27	0.29	47.9	9.9	22
YY11168		0.47	0.004	0.09	1.81	27.6	<0.02	<10	130	0.85	0.20	0.31	0.35	56.9	16.1	23
YY11169		0.53	0.002	0.12	2.04	14.1	<0.02	<10	140	0.86	0.21	0.35	0.23	56.1	8.2	23
YY11170		0.50	0.004	0.08	1.80	11.0	<0.02	<10	140	0.69	0.18	0.26	0.20	42.9	11.1	28
YY11171		0.42	0.001	0.03	1.06	6.0	<0.02	<10	80	0.38	0.12	0.14	0.10	20.3	4.9	14
YY11172		0.33	0.003	0.26	1.71	16.9	<0.02	<10	210	0.86	0.28	0.40	0.28	53.6	12.9	24
YY11173		0.58	0.001	0.13	1.90	11.1	<0.02	<10	90	0.57	0.42	0.23	0.17	53.2	6.1	23
YY11174		0.63	0.003	0.32	2.14	42.5	<0.02	<10	100	0.76	1.00	0.24	0.21	69.9	8.5	26
YY11175		0.62	0.002	0.66	1.68	49.2	<0.02	<10	90	0.94	1.08	0.21	0.20	69.4	5.9	19
YY11176		0.48	0.001	0.08	1.92	16.6	<0.02	<10	90	0.60	0.19	0.16	0.27	30.0	9.8	33
YY11177		0.48	0.003	0.05	1.89	9.6	<0.02	<10	70	0.56	0.19	0.14	0.18	25.6	8.2	28
YY11178		0.42	0.004	0.11	1.41	11.1	<0.02	<10	70	0.56	0.71	0.21	0.46	32.4	7.1	31
YY11179		0.62	0.005	0.11	1.65	15.3	<0.02	<10	100	0.83	0.39	0.30	0.44	50.9	10.0	29
YY11180		0.61	0.004	0.09	1.83	11.4	<0.02	<10	130	0.79	0.29	0.32	0.39	59.1	10.3	30
YY11181		0.60	0.002	0.11	1.39	13.9	<0.02	<10	120	0.59	0.42	0.24	0.35	45.7	8.2	25
YY11182		0.40	0.003	0.18	1.50	8.6	<0.02	<10	140	0.54	0.42	0.18	0.19	46.9	7.9	26
YY11183		0.37	0.003	0.17	1.59	9.9	<0.02	<10	140	0.50	0.43	0.21	0.20	47.6	10.8	25
YY11184		0.52	0.001	0.18	1.68	10.0	<0.02	<10	130	0.46	0.45	0.17	0.16	41.7	7.9	27
YY11185		0.54	0.001	0.16	1.65	12.2	<0.02	<10	130	0.45	0.39	0.17	0.14	42.3	9.2	27
YY11186		0.38	0.004	0.18	1.61	12.5	<0.02	<10	120	0.47	0.40	0.18	0.16	47.7	8.8	28
YY11187		0.68	0.002	0.13	1.62	10.6	<0.02	<10	110	0.44	0.37	0.23	0.16	38.9	7.1	27
YY11188		0.44	0.002	0.21	1.59	13.3	<0.02	<10	150	0.52	0.36	0.22	0.35	51.4	10.8	28
YY11189		0.37	0.001	0.15	1.45	14.0	<0.02	<10	140	0.52	0.33	0.31	0.20	48.5	12.4	25
YY11190		0.54	0.007	0.22	1.67	27.5	<0.02	<10	150	0.68	0.26	0.26	0.19	38.4	13.3	26
YY11191		0.46	0.002	0.23	1.78	10.3	<0.02	<10	160	0.55	0.27	0.26	0.15	39.2	7.7	28
YY11192		0.39	0.002	0.29	1.43	42.5	<0.02	<10	170	0.50	0.23	0.40	0.37	46.9	8.7	22
YY11193		0.40	<0.001	0.24	0.48	8.4	<0.02	<10	50	0.12	0.07	0.07	0.10	11.20	2.8	7
YY11194		0.50	0.002	0.71	1.86	211	<0.02	<10	140	0.63	0.65	0.17	0.70	30.3	7.0	24
YY11195		0.51	0.001	0.09	2.55	13.4	<0.02	<10	110	0.70	1.49	0.19	0.51	38.9	9.5	28
YY11196		0.52	0.001	0.09	2.61	26.7	<0.02	<10	120	1.45	0.29	0.40	0.19	106.0	7.5	26
YY11197		0.44	0.003	0.57	2.38	49.2	<0.02	<10	90	0.79	2.29	0.15	0.56	41.8	9.7	27
YY11198		0.54	0.001	0.24	2.09	12.8	<0.02	<10	100	0.60	0.63	0.12	0.51	30.0	7.3	26
YY11199		0.58	0.004	0.94	2.18	36.0	<0.02	<10	120	1.20	0.38	0.45	0.84	60.0	12.8	30
YY11200		0.47	0.001	0.24	1.10	10.4	<0.02	<10	90	0.64	0.13	0.22	0.47	47.3	5.4	15

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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY11161		1.65	12.9	2.42	6.30	0.06	0.03	0.02	0.028	0.11	17.6	18.7	0.56	233	0.95	0.01
YY11162		1.95	18.3	2.63	6.26	0.09	0.05	0.05	0.027	0.12	27.0	18.4	0.58	207	0.55	0.02
YY11163		5.08	21.4	3.33	8.02	0.10	0.02	0.03	0.034	0.46	24.1	26.1	1.06	334	0.67	0.02
YY11164		2.88	23.2	3.03	7.70	0.12	0.04	0.03	0.044	0.19	29.9	21.6	0.62	392	0.78	0.01
YY11165		7.62	21.0	3.14	8.21	0.11	0.03	0.05	0.068	0.23	40.4	26.4	0.58	580	0.97	0.01
YY11166		3.71	22.7	3.43	9.28	0.11	0.03	0.05	0.046	0.22	32.6	26.8	0.71	309	0.85	0.02
YY11167		4.02	15.6	3.30	8.32	0.09	0.06	0.02	0.034	0.33	25.5	27.6	0.70	291	0.88	0.01
YY11168		3.65	17.2	3.26	7.62	0.13	0.05	0.02	0.036	0.32	30.1	25.8	0.67	390	0.93	0.02
YY11169		3.58	21.4	3.64	7.86	0.12	0.05	0.04	0.030	0.35	29.7	25.1	0.69	204	0.82	0.01
YY11170		2.51	14.9	3.06	7.08	0.09	0.04	0.04	0.031	0.23	20.5	21.9	0.60	478	0.99	0.01
YY11171		1.19	15.5	1.89	5.19	<0.05	0.02	0.01	0.015	0.05	9.9	7.7	0.26	164	0.84	0.02
YY11172		2.01	21.6	2.45	6.50	0.09	0.03	0.05	0.030	0.11	25.7	15.7	0.44	671	1.18	0.02
YY11173		2.33	13.6	2.36	7.11	0.09	0.02	0.04	0.031	0.13	29.4	22.0	0.56	176	0.61	0.01
YY11174		2.35	21.4	2.78	6.97	0.13	0.05	0.05	0.034	0.14	37.3	23.4	0.58	207	0.70	0.01
YY11175		4.48	23.0	2.73	7.04	0.12	<0.02	0.03	0.030	0.11	38.9	23.1	0.54	263	1.50	0.01
YY11176		1.53	18.3	2.72	7.38	0.06	0.02	0.04	0.023	0.11	13.8	18.5	0.60	373	0.99	0.01
YY11177		1.27	19.8	2.72	6.56	0.05	0.03	0.06	0.031	0.07	11.9	20.0	0.48	286	0.97	0.01
YY11178		4.26	18.6	2.52	7.53	0.06	0.02	0.06	0.038	0.13	17.0	16.8	0.60	311	1.08	0.02
YY11179		3.03	21.4	2.74	6.54	0.09	0.03	0.02	0.037	0.14	24.3	23.8	0.68	492	1.12	0.01
YY11180		2.29	19.9	2.74	6.59	0.12	0.03	0.03	0.028	0.15	29.3	22.3	0.75	495	0.88	0.02
YY11181		2.46	14.0	2.54	6.26	0.08	0.02	0.03	0.032	0.10	24.2	15.3	0.49	405	1.06	0.01
YY11182		2.06	12.1	2.17	6.08	0.07	0.02	0.07	0.027	0.07	23.3	14.6	0.45	245	1.05	0.01
YY11183		2.20	11.1	2.20	6.35	0.08	<0.02	0.05	0.031	0.08	24.3	15.8	0.48	545	1.07	0.01
YY11184		2.19	11.3	2.15	6.54	0.06	<0.02	0.06	0.031	0.07	21.7	16.5	0.50	241	1.04	0.01
YY11185		2.19	10.6	2.29	6.60	0.08	<0.02	0.07	0.032	0.07	21.6	16.5	0.48	385	1.08	0.02
YY11186		2.03	12.5	2.14	6.49	0.08	0.02	0.05	0.035	0.08	22.8	17.1	0.48	267	1.00	0.01
YY11187		1.75	10.8	2.18	6.64	0.06	0.02	0.04	0.047	0.09	20.1	18.1	0.52	169	0.73	0.01
YY11188		1.64	12.8	2.61	6.89	0.07	0.02	0.08	0.038	0.10	24.5	16.5	0.46	559	1.24	0.01
YY11189		1.56	14.3	2.54	6.26	0.09	0.02	0.04	0.036	0.11	23.5	16.2	0.48	600	1.07	0.01
YY11190		1.92	12.9	2.51	6.95	0.07	0.02	0.04	0.025	0.11	19.4	17.3	0.52	585	0.97	0.02
YY11191		1.85	14.1	2.22	6.87	0.07	0.03	0.06	0.028	0.11	20.9	17.1	0.53	167	0.93	0.02
YY11192		1.72	13.8	2.06	5.86	0.10	0.02	0.04	0.028	0.14	25.3	14.9	0.48	278	0.95	0.02
YY11193		0.52	7.0	1.05	2.92	<0.05	<0.02	0.04	0.009	0.03	5.4	2.1	0.08	66	0.52	0.02
YY11194		1.42	22.2	2.82	6.19	<0.05	<0.02	0.08	0.055	0.10	14.9	17.3	0.39	422	1.12	0.02
YY11195		1.29	15.7	3.00	5.59	0.05	0.06	0.04	0.028	0.10	19.7	23.1	0.44	382	0.93	0.02
YY11196		7.29	11.9	3.41	12.15	0.09	<0.02	0.02	0.036	0.46	36.6	35.4	1.29	401	1.18	0.01
YY11197		2.23	29.8	3.17	7.05	0.05	0.03	0.07	0.051	0.19	19.9	22.2	0.56	406	1.01	0.01
YY11198		1.72	21.2	3.12	8.19	<0.05	0.02	0.06	0.040	0.13	14.3	19.1	0.42	354	1.35	0.01
YY11199		3.48	36.5	3.64	9.09	0.09	0.03	0.05	0.130	0.30	37.0	28.6	0.68	658	1.34	0.02
YY11200		1.36	17.1	1.80	4.43	0.08	<0.02	0.03	0.020	0.07	28.8	8.5	0.25	246	0.72	0.02

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

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North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: CN

Finalized Date: 1-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198379

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY11161		1.63	18.6	640	9.8	20.5	<0.001	0.03	0.46	2.9	0.2	1.2	15.5	<0.01	0.02	4.0
YY11162		1.84	18.6	840	35.6	22.4	<0.001	0.02	0.76	4.1	0.4	1.2	17.9	<0.01	0.02	8.8
YY11163		1.56	22.4	880	43.7	53.2	<0.001	0.01	0.66	5.1	<0.2	1.3	23.8	<0.01	0.01	7.3
YY11164		1.75	22.0	780	66.7	29.0	<0.001	0.02	0.73	4.9	<0.2	1.1	17.4	<0.01	0.04	8.0
YY11165		1.36	19.1	850	259	36.3	<0.001	0.02	2.10	3.8	0.2	1.4	13.2	<0.01	0.02	13.6
YY11166		1.64	20.4	660	69.1	38.3	<0.001	0.02	0.84	5.9	0.3	1.6	19.0	<0.01	0.03	6.7
YY11167		2.18	17.1	860	31.6	46.5	<0.001	0.02	0.67	4.3	0.4	1.3	15.9	<0.01	0.01	8.4
YY11168		1.66	18.9	890	33.6	43.5	<0.001	0.02	0.61	4.3	0.3	1.0	19.2	<0.01	0.02	7.7
YY11169		1.91	16.6	980	28.5	45.8	<0.001	0.03	0.70	4.9	0.6	1.1	19.1	<0.01	0.02	8.6
YY11170		1.70	18.6	710	20.5	32.1	<0.001	0.03	0.61	4.1	0.3	0.9	17.6	<0.01	0.03	6.4
YY11171		0.89	8.8	420	9.6	7.3	<0.001	0.02	0.34	1.5	0.3	0.5	12.7	0.01	0.02	1.3
YY11172		1.03	18.0	820	49.2	19.6	<0.001	0.08	0.78	2.7	0.5	0.8	28.6	<0.01	0.03	2.0
YY11173		1.72	16.4	740	15.9	21.9	<0.001	0.03	0.77	3.2	0.5	0.8	14.6	<0.01	0.01	4.3
YY11174		1.85	19.8	740	33.0	24.3	<0.001	0.02	1.26	4.5	0.7	0.8	14.7	<0.01	0.02	8.5
YY11175		1.00	13.4	670	73.3	22.2	<0.001	0.03	1.83	2.4	0.6	0.8	13.7	<0.01	0.02	5.1
YY11176		1.42	25.8	420	39.4	20.0	<0.001	0.04	0.58	2.7	0.2	0.7	14.0	<0.01	0.03	1.6
YY11177		1.47	22.5	430	12.1	12.6	<0.001	0.04	0.55	2.5	0.3	0.7	12.8	<0.01	0.03	1.6
YY11178		1.28	19.4	820	25.3	24.0	<0.001	0.06	0.96	2.2	0.5	1.0	15.2	<0.01	0.03	1.6
YY11179		1.50	26.2	990	40.1	27.5	<0.001	0.03	0.99	3.1	<0.2	0.8	17.5	<0.01	0.02	6.5
YY11180		1.56	27.6	1050	21.9	28.8	<0.001	0.02	0.77	3.4	0.5	0.7	18.1	<0.01	0.03	8.2
YY11181		1.12	17.9	750	25.2	18.8	<0.001	0.04	0.74	2.2	0.3	0.6	18.4	<0.01	0.02	3.1
YY11182		1.01	16.4	760	30.1	18.6	<0.001	0.07	0.56	2.2	0.3	0.6	17.5	<0.01	<0.01	1.4
YY11183		1.01	16.4	770	32.1	19.6	<0.001	0.06	0.63	2.4	0.5	0.6	17.7	<0.01	0.02	1.7
YY11184		0.99	16.4	700	34.3	18.6	<0.001	0.05	0.59	2.4	0.4	0.7	15.6	<0.01	0.02	1.8
YY11185		0.98	16.3	680	29.2	18.1	<0.001	0.05	0.58	2.5	0.6	0.7	15.5	<0.01	0.02	1.7
YY11186		1.13	17.0	760	30.5	18.2	<0.001	0.06	0.77	2.9	0.7	0.7	15.6	<0.01	0.01	2.1
YY11187		1.34	16.7	770	32.1	19.2	<0.001	0.03	0.82	3.1	0.7	0.8	16.1	<0.01	0.02	4.0
YY11188		1.21	17.3	930	24.0	18.8	<0.001	0.08	0.84	2.6	0.4	0.8	20.1	<0.01	0.01	1.8
YY11189		1.25	17.6	1100	24.2	18.6	<0.001	0.05	1.03	3.0	<0.2	0.8	20.5	<0.01	0.03	3.3
YY11190		1.29	17.2	790	32.6	20.0	<0.001	0.04	0.54	3.0	<0.2	1.0	20.3	<0.01	0.01	2.9
YY11191		1.57	17.5	680	28.5	20.9	<0.001	0.04	0.48	4.0	0.3	0.9	21.1	<0.01	0.02	3.8
YY11192		1.43	15.7	730	34.5	23.5	<0.001	0.05	0.57	3.2	0.4	0.9	27.7	<0.01	0.02	2.8
YY11193		0.41	4.2	250	12.3	4.0	<0.001	0.03	0.22	0.7	0.2	0.3	11.0	<0.01	0.02	0.2
YY11194		1.42	17.1	620	131.5	18.0	<0.001	0.06	0.98	2.1	0.4	0.7	16.3	<0.01	0.07	1.8
YY11195		1.75	21.8	750	27.8	14.3	0.001	0.04	0.67	3.2	0.4	0.6	13.9	0.01	0.03	5.4
YY11196		1.40	15.9	1040	24.0	49.1	<0.001	0.02	2.51	4.4	0.2	1.0	21.2	<0.01	0.03	17.7
YY11197		1.96	19.4	480	98.2	28.9	0.001	0.04	1.08	3.8	0.5	1.0	12.2	<0.01	0.08	4.8
YY11198		1.71	15.8	500	37.7	25.9	<0.001	0.05	0.74	2.8	0.2	1.1	12.2	<0.01	0.24	1.8
YY11199		1.75	16.6	800	242	46.7	0.001	0.04	1.14	5.7	0.2	1.4	23.5	<0.01	0.03	7.3
YY11200		0.76	9.8	670	36.8	10.1	<0.001	0.05	0.53	1.5	0.2	0.5	17.0	<0.01	0.02	1.4

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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VANCOUVER BC V6B 1L8

Finalized Date: 1-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198379

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY11161		0.098	0.17	1.08	49	0.21	7.41	55	1.3
YY11162		0.100	0.22	1.84	46	0.22	15.10	91	2.1
YY11163		0.153	0.42	1.25	64	0.17	13.50	80	1.2
YY11164		0.104	0.23	1.13	55	0.19	15.05	96	1.8
YY11165		0.062	0.31	2.40	46	0.19	17.80	256	0.9
YY11166		0.127	0.32	1.86	69	0.19	19.65	96	1.2
YY11167		0.152	0.38	1.27	65	0.22	13.00	69	2.0
YY11168		0.150	0.38	1.48	70	0.26	14.15	74	1.6
YY11169		0.157	0.39	1.93	76	0.26	14.90	65	2.1
YY11170		0.126	0.24	1.26	62	0.23	10.40	66	1.4
YY11171		0.074	0.11	0.42	44	0.15	4.01	40	0.7
YY11172		0.064	0.20	1.56	52	0.23	14.95	74	0.9
YY11173		0.083	0.23	1.27	38	0.15	11.25	67	0.7
YY11174		0.098	0.27	2.66	44	0.17	14.00	94	1.9
YY11175		0.054	0.25	4.08	39	0.19	15.65	102	<0.5
YY11176		0.101	0.18	0.70	61	0.27	4.48	75	1.0
YY11177		0.084	0.13	0.86	55	0.19	4.15	77	1.3
YY11178		0.079	0.20	1.45	53	0.28	7.69	88	0.9
YY11179		0.091	0.21	2.19	52	0.24	11.85	121	1.0
YY11180		0.104	0.24	1.93	50	0.22	14.35	91	1.3
YY11181		0.078	0.17	1.74	53	0.41	10.15	81	0.7
YY11182		0.061	0.19	2.41	44	0.27	9.62	60	0.8
YY11183		0.066	0.20	2.18	44	0.19	8.88	70	0.5
YY11184		0.066	0.20	2.13	48	0.28	7.72	67	0.6
YY11185		0.067	0.20	2.00	48	0.41	7.50	66	0.6
YY11186		0.069	0.21	2.19	48	0.23	8.98	64	0.7
YY11187		0.083	0.18	1.70	45	0.34	7.80	70	0.7
YY11188		0.073	0.20	1.75	56	0.52	10.70	69	0.8
YY11189		0.077	0.18	1.64	52	0.43	12.45	71	0.8
YY11190		0.080	0.21	1.41	52	0.40	10.00	55	0.8
YY11191		0.088	0.20	2.06	55	0.29	9.97	54	0.9
YY11192		0.085	0.20	1.95	43	0.22	14.30	65	1.0
YY11193		0.047	0.08	0.43	27	0.08	2.27	23	<0.5
YY11194		0.070	0.17	0.88	52	0.26	5.51	165	0.6
YY11195		0.087	0.14	0.89	53	0.25	8.80	74	1.6
YY11196		0.078	0.44	1.56	42	0.12	20.4	66	<0.5
YY11197		0.116	0.25	1.21	58	0.23	10.35	153	1.0
YY11198		0.105	0.20	0.91	71	0.24	5.83	96	0.9
YY11199		0.122	0.35	2.06	68	0.61	20.3	263	1.1
YY11200		0.057	0.11	1.13	38	0.19	14.20	80	0.7

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Finalized Date: 1-SEP-2019
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CERTIFICATE OF ANALYSIS WH19198379

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

LABORATORY ADDRESSES

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

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

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North Vancouver BC V7H 0A7
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Finalized Date: 6-SEP-2019
Account: RCM

CERTIFICATE WH19198397

Project: CN

This report is for 99 Soil samples submitted to our lab in Whitehorse, YT, Canada on 12-AUG-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE	

SAMPLE PREPARATION

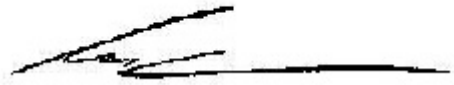
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

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

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

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY11401		0.43	0.004	0.48	1.76	35.0	<0.02	<10	160	0.47	0.49	0.21	0.30	22.5	5.9	24
YY11402		0.55	0.004	0.26	1.72	32.5	<0.02	<10	140	0.38	0.64	0.24	0.32	21.1	6.2	23
YY11403		0.50	0.001	0.35	1.92	22.5	<0.02	<10	190	0.53	0.50	0.23	0.24	29.2	6.5	26
YY11404		0.47	0.002	0.27	1.76	31.4	<0.02	<10	150	0.52	0.65	0.25	0.35	23.3	5.8	23
YY11405		0.55	0.002	0.14	1.80	50.8	<0.02	<10	140	0.48	0.56	0.27	0.37	25.2	7.1	23
YY11406		0.41	0.001	0.34	1.52	23.6	<0.02	<10	130	0.38	0.47	0.17	0.30	21.4	4.3	19
YY11407		0.47	0.001	0.22	2.08	31.2	0.05	<10	150	0.45	0.58	0.20	0.33	21.0	7.4	29
YY11408		0.44	0.002	0.19	1.78	34.6	<0.02	<10	120	0.38	0.60	0.16	0.22	22.0	5.6	25
YY11409		0.45	0.001	0.09	1.95	12.1	<0.02	<10	150	0.43	0.37	0.16	0.21	18.05	7.0	26
YY11410		0.43	<0.001	0.05	2.12	20.9	<0.02	<10	160	0.41	1.17	0.13	0.25	23.1	7.3	29
YY11411		0.46	<0.001	0.09	2.00	11.0	<0.02	<10	180	0.50	0.35	0.23	0.13	26.3	7.4	27
YY11412		0.56	<0.001	0.09	1.91	11.4	<0.02	<10	260	0.70	0.24	0.35	0.14	35.8	9.8	33
YY11413		0.52	0.001	0.12	1.95	54.3	<0.02	<10	160	0.68	0.92	0.22	0.41	38.6	7.9	25
YY11414		0.48	0.002	0.12	2.12	63.1	<0.02	<10	160	0.77	1.62	0.38	0.18	35.6	8.4	25
YY11415		0.49	0.001	0.14	2.62	74.8	<0.02	<10	150	0.87	0.50	0.42	0.23	31.8	9.5	24
YY11416		0.49	<0.001	0.15	2.23	24.9	<0.02	<10	180	0.54	0.35	0.33	0.16	25.2	7.7	21
YY11417		0.52	<0.001	0.02	2.96	11.7	<0.02	<10	210	0.82	0.20	0.79	0.14	31.7	9.5	20
YY11418		0.37	0.002	0.57	2.71	44.5	<0.02	<10	340	0.95	2.70	0.28	0.35	32.8	8.5	32
YY11419		0.63	0.001	0.20	1.57	20.2	<0.02	<10	160	0.53	2.51	0.37	0.24	39.5	9.1	23
YY11420		0.59	<0.001	0.29	1.85	12.0	<0.02	<10	170	0.84	1.65	0.49	0.16	32.6	6.7	19
YY11421		0.62	0.001	0.19	2.35	24.5	<0.02	<10	150	0.90	1.31	0.67	0.23	36.0	9.3	21
YY11422		0.53	<0.001	0.09	1.75	13.5	<0.02	<10	100	0.50	0.83	0.20	0.19	25.1	4.2	20
YY11423		0.51	0.001	0.08	2.43	12.3	<0.02	<10	130	0.69	1.11	0.31	0.23	26.4	8.6	23
YY11424		0.51	<0.001	0.03	2.72	12.9	<0.02	<10	140	0.81	3.23	0.34	0.25	26.6	9.9	26
YY11425		0.18	0.001	0.03	2.16	17.6	<0.02	<10	100	0.53	2.61	0.30	0.11	27.3	7.4	20
YY11426		0.57	<0.001	0.07	2.78	10.4	<0.02	<10	140	0.91	1.07	0.89	0.16	31.0	5.8	19
YY11427		0.55	<0.001	0.30	2.42	38.5	<0.02	<10	120	0.53	3.25	0.51	0.22	22.0	5.5	18
YY11428		0.50	<0.001	0.33	2.19	19.9	<0.02	<10	120	0.72	1.37	0.42	0.33	25.8	6.0	18
YY11429		0.57	<0.001	0.11	2.01	10.6	<0.02	<10	130	0.83	1.56	0.59	0.30	56.1	4.5	10
YY11430		0.51	<0.001	0.19	1.60	20.8	<0.02	<10	100	0.46	3.97	0.17	0.45	30.2	4.0	15
YY11431		0.58	0.003	0.45	1.85	105.0	<0.02	<10	90	0.64	2.15	0.30	0.65	33.3	4.9	16
YY11432		0.54	0.001	0.40	1.49	78.4	<0.02	<10	90	0.48	1.13	0.28	0.56	32.1	4.2	15
YY11433		0.57	<0.001	0.53	2.30	81.6	<0.02	<10	150	1.38	1.39	0.68	1.03	52.7	7.1	14
YY11434		0.54	0.003	0.94	2.57	59.1	<0.02	<10	180	1.09	0.61	0.61	0.43	41.1	8.5	26
YY11435		0.56	0.002	0.40	1.73	79.7	<0.02	<10	160	0.82	0.58	0.43	0.49	38.2	10.3	22
YY11436		0.56	0.018	0.61	2.49	183.5	<0.02	<10	240	0.87	1.29	0.39	0.38	41.7	10.7	33
YY11437		0.52	0.009	2.00	3.56	406	<0.02	<10	230	1.09	1.59	0.67	0.82	32.3	9.5	43
YY11438		0.54	<0.001	0.23	2.89	46.4	<0.02	<10	610	1.14	0.32	0.81	0.65	66.7	14.1	43
YY11439		0.48	0.002	0.23	2.00	79.0	<0.02	<10	140	0.50	0.25	0.08	0.30	24.0	6.8	41
YY11440		0.53	<0.001	0.22	2.98	132.0	<0.02	<10	300	0.80	0.66	0.08	0.57	31.3	8.5	74

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: CN

Finalized Date: 6-SEP-2019
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CERTIFICATE OF ANALYSIS WH19198397

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY11401		1.50	19.3	2.47	6.68	<0.05	0.02	0.04	0.024	0.04	12.8	12.5	0.42	211	3.18	<0.01
YY11402		1.45	16.3	2.62	6.56	<0.05	0.02	0.04	0.024	0.05	12.7	12.2	0.45	263	4.24	<0.01
YY11403		1.26	20.5	2.62	6.80	<0.05	0.02	0.03	0.026	0.04	16.2	11.6	0.42	259	3.59	<0.01
YY11404		1.73	19.7	2.39	6.24	0.05	0.03	0.02	0.026	0.05	14.1	14.6	0.44	223	7.45	<0.01
YY11405		2.09	19.5	2.55	6.41	<0.05	0.02	0.02	0.026	0.05	15.3	13.4	0.46	370	4.29	<0.01
YY11406		1.83	17.6	2.00	6.20	<0.05	<0.02	0.02	0.020	0.04	12.4	9.6	0.31	193	6.99	<0.01
YY11407		1.53	17.6	3.06	7.61	<0.05	0.07	0.02	0.028	0.05	12.6	15.7	0.52	287	2.29	<0.01
YY11408		1.31	16.1	2.51	6.85	<0.05	<0.02	0.02	0.024	0.04	12.7	11.4	0.41	223	1.44	<0.01
YY11409		1.02	18.4	2.41	6.25	<0.05	<0.02	0.02	0.019	0.05	9.9	10.4	0.39	221	0.80	0.01
YY11410		1.36	20.5	3.20	6.54	<0.05	0.03	0.03	0.030	0.05	10.2	14.8	0.41	230	1.29	0.01
YY11411		1.16	18.1	2.48	5.90	<0.05	0.02	0.02	0.022	0.04	13.4	13.3	0.44	204	0.89	0.01
YY11412		1.08	26.3	2.72	5.55	0.05	0.04	0.03	0.024	0.06	17.9	13.3	0.58	316	0.69	0.01
YY11413		1.55	19.2	2.61	5.44	0.05	0.03	0.02	0.030	0.05	18.2	14.3	0.44	367	1.24	0.01
YY11414		1.64	34.7	2.74	6.24	0.05	0.03	0.02	0.029	0.05	18.7	15.1	0.51	387	1.51	0.01
YY11415		2.66	20.3	3.21	7.32	0.05	0.03	0.02	0.036	0.05	15.2	21.5	0.51	438	1.54	0.01
YY11416		3.16	20.6	2.71	7.48	0.05	<0.02	0.03	0.028	0.07	12.3	17.2	0.44	289	1.37	0.01
YY11417		4.86	18.2	3.18	8.89	0.05	0.05	0.02	0.025	0.13	14.5	22.1	0.56	345	0.97	0.01
YY11418		2.33	53.4	3.35	7.90	0.05	<0.02	0.07	0.035	0.08	16.9	17.1	0.46	291	3.30	0.01
YY11419		1.64	29.8	2.98	5.66	0.06	0.04	0.01	0.026	0.05	20.1	18.0	0.51	371	2.31	0.01
YY11420		3.53	28.7	3.05	6.73	0.05	<0.02	0.02	0.022	0.06	20.0	14.9	0.39	311	2.16	0.01
YY11421		4.37	40.8	3.21	7.86	0.06	0.03	0.05	0.027	0.09	22.3	20.1	0.53	350	5.34	0.01
YY11422		2.02	21.4	2.43	7.55	<0.05	<0.02	0.01	0.021	0.04	13.0	14.2	0.30	150	3.50	0.01
YY11423		2.26	24.2	2.98	6.83	<0.05	0.03	0.03	0.027	0.05	14.7	18.8	0.46	272	2.52	0.01
YY11424		2.64	29.2	3.53	6.97	<0.05	0.05	0.02	0.026	0.06	14.8	23.0	0.51	388	3.08	0.01
YY11425		4.32	35.7	4.01	11.00	<0.05	0.06	0.02	0.024	0.08	16.1	17.4	0.53	372	7.38	0.01
YY11426		4.98	25.1	2.55	7.84	<0.05	0.02	0.02	0.021	0.09	19.4	14.9	0.42	240	3.18	0.01
YY11427		5.01	52.0	3.35	9.57	<0.05	0.03	0.01	0.026	0.11	13.4	19.5	0.51	282	67.7	0.02
YY11428		2.64	47.5	2.54	6.79	<0.05	<0.02	0.02	0.022	0.06	15.9	19.3	0.37	229	24.1	0.01
YY11429		3.23	48.3	2.21	7.11	0.05	<0.02	0.01	0.015	0.10	39.3	17.0	0.42	253	10.30	0.02
YY11430		1.90	33.5	2.29	7.65	<0.05	0.02	0.01	0.018	0.06	17.7	14.3	0.31	184	28.9	<0.01
YY11431		3.37	51.5	2.79	7.08	0.05	0.03	0.02	0.027	0.12	20.5	24.6	0.45	239	51.2	0.01
YY11432		2.14	39.2	2.25	6.51	<0.05	0.02	0.03	0.026	0.07	19.5	15.7	0.35	213	33.4	0.01
YY11433		7.66	72.5	3.20	8.36	0.06	0.06	0.01	0.031	0.18	34.2	21.3	0.53	412	27.3	0.01
YY11434		3.13	26.3	3.29	8.09	0.05	0.12	0.02	0.030	0.07	23.7	18.0	0.48	294	5.70	0.01
YY11435		2.04	30.1	3.03	6.44	0.06	0.02	0.03	0.025	0.06	20.6	14.6	0.45	443	8.13	0.01
YY11436		2.28	59.1	3.27	6.84	0.05	0.10	0.06	0.037	0.10	24.0	18.4	0.60	407	2.75	0.01
YY11437		5.72	61.8	3.92	11.10	0.05	0.05	0.04	0.067	0.25	17.0	28.0	0.73	535	3.60	0.01
YY11438		3.51	36.9	3.80	10.25	0.10	0.08	0.02	0.039	0.12	28.4	21.3	0.79	492	1.56	0.02
YY11439		1.95	28.4	3.24	7.42	<0.05	0.02	0.02	0.026	0.07	12.0	15.7	0.42	287	2.84	0.01
YY11440		3.80	65.7	4.36	8.38	<0.05	<0.02	0.01	0.071	0.16	15.5	29.4	0.82	326	3.49	0.01

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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VANCOUVER BC V6B 1L8

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY11401		1.16	14.6	420	35.5	10.8	<0.001	0.01	0.40	3.0	0.3	0.5	35.1	<0.01	0.03	2.3
YY11402		1.16	13.3	460	55.0	9.7	<0.001	0.01	0.53	2.7	0.2	0.5	47.0	<0.01	0.02	5.6
YY11403		1.12	14.7	480	49.1	8.9	<0.001	0.01	0.37	3.5	0.2	0.5	43.7	<0.01	0.03	3.2
YY11404		1.24	14.1	440	57.9	11.8	<0.001	0.01	0.47	3.0	0.2	0.4	55.3	<0.01	0.03	11.8
YY11405		1.04	14.3	400	60.8	9.6	<0.001	0.01	0.68	2.4	0.2	0.4	68.7	<0.01	0.03	3.6
YY11406		0.65	9.8	510	40.5	10.1	<0.001	0.02	0.38	1.3	0.3	0.4	42.7	<0.01	0.03	0.4
YY11407		1.47	16.7	310	30.7	10.1	<0.001	0.01	0.59	3.5	<0.2	0.6	44.5	<0.01	0.04	5.7
YY11408		1.02	14.1	450	42.3	9.4	<0.001	0.01	0.42	2.1	<0.2	0.5	34.7	<0.01	0.04	1.3
YY11409		1.15	16.1	390	21.7	7.7	<0.001	0.01	0.34	2.2	0.2	0.5	33.1	<0.01	0.03	1.1
YY11410		1.69	21.9	400	21.1	8.3	<0.001	0.01	0.57	2.8	0.3	0.6	26.4	<0.01	0.04	2.3
YY11411		1.06	20.3	780	12.4	9.4	<0.001	0.01	0.32	2.3	0.2	0.5	34.9	<0.01	0.03	0.7
YY11412		1.94	32.9	750	11.6	7.6	<0.001	0.01	0.39	3.9	<0.2	0.5	61.4	<0.01	0.02	1.6
YY11413		1.07	17.2	610	69.3	8.1	<0.001	<0.01	0.47	3.2	0.3	0.5	96.3	<0.01	0.04	3.7
YY11414		1.17	18.2	770	34.2	7.8	<0.001	0.01	0.59	3.4	0.4	0.5	55.3	0.01	0.04	4.5
YY11415		1.48	16.4	770	46.1	10.2	<0.001	0.01	0.48	3.3	0.4	0.5	70.7	0.01	0.03	3.8
YY11416		1.57	15.1	600	22.9	14.9	<0.001	0.01	0.44	2.9	0.5	0.6	65.8	<0.01	0.04	2.1
YY11417		2.79	15.4	780	22.0	22.4	<0.001	<0.01	0.37	3.4	0.2	0.6	122.0	<0.01	0.03	13.2
YY11418		0.99	23.8	960	43.5	16.5	<0.001	0.05	0.64	3.6	0.4	0.6	57.6	<0.01	0.07	1.9
YY11419		1.32	15.7	960	96.4	10.5	<0.001	0.01	0.47	3.1	0.2	0.5	73.8	<0.01	0.04	8.9
YY11420		0.76	11.3	1090	47.0	11.4	<0.001	0.02	0.35	2.1	0.3	0.5	87.0	<0.01	0.05	2.7
YY11421		1.29	13.8	1080	39.8	18.3	<0.001	0.01	0.43	3.3	0.3	0.5	130.5	<0.01	0.06	8.6
YY11422		1.11	9.5	460	25.4	9.9	<0.001	0.01	0.36	1.9	0.2	0.7	45.4	<0.01	0.05	1.7
YY11423		1.56	15.8	650	21.7	11.1	<0.001	0.01	0.39	3.1	0.4	0.5	62.4	<0.01	0.05	7.2
YY11424		1.86	17.3	670	21.0	12.2	<0.001	0.01	0.46	3.4	0.2	0.5	59.6	<0.01	0.06	10.2
YY11425		2.56	11.6	690	23.1	18.9	<0.001	0.01	0.43	2.7	0.3	0.6	87.5	<0.01	0.09	20.0
YY11426		1.27	11.0	710	23.6	16.1	<0.001	<0.01	0.33	2.8	0.2	0.5	132.5	<0.01	0.03	6.1
YY11427		1.86	10.1	550	37.4	27.9	<0.001	0.01	0.52	3.2	<0.2	0.7	136.0	<0.01	0.05	9.7
YY11428		1.08	11.4	430	26.1	13.7	<0.001	<0.01	0.53	2.5	<0.2	0.5	79.2	<0.01	0.05	5.2
YY11429		0.75	6.0	880	19.9	19.2	<0.001	<0.01	0.38	2.2	<0.2	0.4	131.5	<0.01	0.04	9.3
YY11430		1.25	8.2	410	34.7	16.8	<0.001	<0.01	0.41	2.2	0.2	0.6	45.9	<0.01	0.03	7.0
YY11431		1.37	9.2	660	136.5	25.1	<0.001	0.02	0.62	2.8	<0.2	0.6	76.1	<0.01	0.18	10.7
YY11432		1.23	7.7	530	98.9	21.7	<0.001	0.01	0.54	2.5	<0.2	0.6	68.2	<0.01	0.06	6.8
YY11433		1.39	9.8	1050	128.0	47.1	<0.001	<0.01	1.62	4.4	0.3	0.7	173.5	0.01	0.10	21.7
YY11434		1.09	18.0	830	160.0	13.8	<0.001	<0.01	1.06	4.9	0.2	0.6	84.6	0.01	0.04	11.7
YY11435		1.08	15.7	950	81.1	11.7	<0.001	<0.01	0.67	3.0	0.4	0.5	59.6	<0.01	0.04	4.8
YY11436		1.42	23.1	500	125.0	15.1	<0.001	0.01	1.50	4.8	0.2	0.5	67.6	0.01	0.03	9.8
YY11437		3.15	27.3	630	278	37.2	<0.001	0.04	2.34	5.9	0.3	0.7	112.5	0.01	0.04	8.0
YY11438		5.16	37.6	2950	66.7	19.2	<0.001	0.01	0.88	5.7	0.6	0.6	170.5	0.01	0.07	7.2
YY11439		1.39	23.5	440	49.3	14.7	<0.001	0.03	1.24	3.5	0.6	0.5	16.8	<0.01	0.06	3.0
YY11440		2.26	40.0	570	168.5	21.3	0.001	0.10	1.26	6.1	2.1	0.3	36.4	<0.01	0.12	3.4

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Project: CN

CERTIFICATE OF ANALYSIS WH19198397

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY11401		0.073	0.11	2.05	58	1.20	4.08	58	0.7
YY11402		0.072	0.10	1.33	61	4.44	3.31	68	0.8
YY11403		0.067	0.10	2.57	59	0.74	6.00	59	0.8
YY11404		0.066	0.10	2.00	52	2.37	4.00	66	1.1
YY11405		0.064	0.10	1.67	53	3.62	3.39	98	0.5
YY11406		0.049	0.10	1.56	46	1.01	3.23	52	<0.5
YY11407		0.083	0.12	1.24	72	0.43	3.16	72	2.7
YY11408		0.066	0.10	1.66	59	0.28	3.20	67	0.6
YY11409		0.072	0.08	0.71	54	0.19	2.72	50	0.8
YY11410		0.086	0.11	0.84	65	0.84	3.23	49	1.4
YY11411		0.064	0.10	0.87	54	0.23	4.53	46	0.5
YY11412		0.121	0.11	1.57	59	0.33	9.63	55	1.8
YY11413		0.061	0.11	1.21	52	0.27	5.19	94	1.0
YY11414		0.073	0.15	3.30	57	0.32	5.78	72	1.4
YY11415		0.074	0.17	1.94	67	0.29	5.29	72	0.8
YY11416		0.084	0.16	2.39	61	1.01	5.03	57	0.8
YY11417		0.140	0.21	2.12	71	0.40	6.11	56	2.4
YY11418		0.053	0.19	6.12	61	4.38	8.59	83	0.6
YY11419		0.087	0.16	2.60	64	4.19	5.26	67	1.4
YY11420		0.057	0.14	5.65	66	5.73	5.08	55	<0.5
YY11421		0.095	0.21	5.85	65	10.85	4.97	68	1.0
YY11422		0.064	0.14	3.06	62	1.56	3.37	41	<0.5
YY11423		0.076	0.17	1.93	60	1.41	3.72	53	1.1
YY11424		0.087	0.17	2.02	66	1.64	3.86	59	2.0
YY11425		0.138	0.21	3.53	86	3.50	3.01	56	1.8
YY11426		0.078	0.23	2.60	56	1.11	3.92	49	0.5
YY11427		0.105	0.34	3.67	75	5.43	2.67	83	1.1
YY11428		0.060	0.18	3.67	51	0.96	3.10	61	<0.5
YY11429		0.044	0.22	3.60	41	0.96	3.62	54	<0.5
YY11430		0.065	0.16	1.84	54	2.81	2.34	56	0.7
YY11431		0.079	0.29	3.18	59	10.50	3.30	127	1.2
YY11432		0.064	0.19	3.36	51	9.40	3.31	114	0.6
YY11433		0.082	0.48	5.70	56	12.70	8.20	168	2.3
YY11434		0.092	0.17	3.40	70	5.02	5.98	66	4.8
YY11435		0.073	0.15	2.88	65	9.26	5.59	80	0.5
YY11436		0.114	0.20	2.63	68	0.30	7.24	95	4.4
YY11437		0.142	0.38	2.19	84	0.29	7.07	174	1.8
YY11438		0.148	0.28	1.30	71	0.41	14.20	138	3.4
YY11439		0.062	0.23	0.83	97	0.24	3.21	92	0.9
YY11440		0.101	0.47	1.37	137	0.20	4.27	181	0.7

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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VANCOUVER BC V6B 1L8

Project: CN

Finalized Date: 6-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198397

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY11441		0.50	0.001	0.19	2.28	57.2	<0.02	<10	210	0.57	0.29	0.11	0.37	25.7	6.9	47
YY11442		0.49	<0.001	0.13	3.05	23.1	<0.02	<10	200	0.86	16.10	0.63	0.25	32.2	7.8	27
YY11443		0.40	0.002	0.59	1.93	37.6	<0.02	<10	100	0.56	0.36	0.32	0.27	25.1	3.6	18
YY11444		0.53	0.003	1.81	3.72	35.9	<0.02	<10	130	2.31	1.07	0.80	1.54	39.9	8.7	21
YY11445		0.52	0.002	0.30	2.34	45.1	<0.02	<10	150	0.65	0.88	0.21	1.03	24.8	9.5	27
YY11446		0.55	0.005	0.69	1.88	92.9	<0.02	<10	120	0.57	0.72	0.20	0.98	24.7	6.2	17
YY11447		0.49	0.002	0.22	1.71	77.1	<0.02	<10	140	0.35	0.40	0.18	0.71	23.9	6.2	25
YY11448		0.56	0.003	0.08	1.85	14.2	<0.02	<10	200	0.52	0.31	0.29	0.10	36.1	9.7	30
YY11449		0.45	<0.001	0.24	2.73	13.9	<0.02	<10	160	0.55	0.28	0.14	0.58	23.3	12.0	34
YY11450		0.50	<0.001	0.27	2.72	14.0	<0.02	<10	120	0.72	0.88	0.14	0.49	27.7	9.5	30
YY11451		0.54	0.002	0.28	2.42	11.0	<0.02	<10	190	0.54	0.80	0.19	0.20	24.6	9.8	27
YY11452		0.49	<0.001	0.18	1.71	34.8	<0.02	<10	150	0.52	2.27	0.45	0.20	27.2	7.2	16
YY11453		0.48	0.002	0.22	1.95	70.3	<0.02	<10	110	0.69	6.89	0.42	0.26	26.6	7.5	18
YY11454		0.50	<0.001	0.21	2.57	40.4	<0.02	<10	130	1.06	2.34	0.73	0.34	30.7	8.6	19
YY11455		0.59	0.001	0.20	2.11	11.0	<0.02	<10	130	0.95	0.77	0.49	0.20	28.4	7.4	20
YY11456		0.43	<0.001	0.17	1.31	4.8	<0.02	<10	90	0.41	0.45	0.19	0.08	16.75	2.4	12
YY11457		0.47	<0.001	0.08	1.72	6.5	<0.02	<10	100	0.53	0.65	0.41	0.12	21.9	4.5	12
YY11458		0.43	0.002	0.06	2.17	8.0	<0.02	<10	120	0.60	1.31	0.41	0.13	28.9	5.9	19
YY11459		0.52	0.001	0.23	2.18	14.7	<0.02	<10	140	0.61	0.84	0.31	0.37	30.9	7.9	26
YY11460		0.56	0.003	0.32	2.18	47.8	<0.02	<10	150	0.80	0.79	0.32	0.85	35.9	8.3	26
YY11461		0.44	0.002	0.14	1.92	35.0	<0.02	<10	180	0.52	0.46	0.30	0.27	27.6	7.9	29
YY11462		0.50	0.005	0.25	2.13	36.0	<0.02	<10	140	0.48	0.48	0.28	0.40	26.0	12.7	31
YY11463		0.43	0.002	0.35	2.06	163.0	<0.02	<10	160	0.81	1.39	0.44	0.78	35.9	6.2	19
YY11464		0.46	0.004	0.81	2.22	91.5	<0.02	<10	230	0.78	2.13	0.56	0.47	32.3	9.0	30
YY11465		0.46	0.001	0.16	2.04	8.2	<0.02	<10	170	0.62	0.15	0.33	0.19	22.2	6.9	25
YY11466		0.38	<0.001	0.14	1.83	6.4	<0.02	<10	120	0.46	0.16	0.30	0.19	19.00	4.3	23
YY11467		0.48	0.001	0.29	1.89	9.9	<0.02	<10	170	0.44	3.25	0.38	0.21	22.4	6.1	21
YY11468		0.53	0.001	0.53	2.28	14.8	<0.02	<10	210	0.59	2.62	0.53	0.27	23.1	9.6	26
YY11469		0.43	0.002	0.45	2.11	8.1	<0.02	<10	210	0.49	1.12	0.46	0.15	21.7	6.4	24
YY11470		0.49	<0.001	0.21	2.10	8.8	<0.02	<10	200	0.61	0.70	0.41	0.21	23.3	8.1	26
YY11471		0.47	0.003	0.24	1.97	8.5	<0.02	<10	180	0.45	0.36	0.35	0.16	20.5	6.9	25
YY11472		0.42	0.001	0.24	2.02	10.9	<0.02	<10	190	0.42	0.44	0.39	0.18	21.0	9.6	24
YY11473		0.49	0.001	0.27	1.96	10.0	<0.02	<10	180	0.31	0.50	0.35	0.17	19.20	8.3	24
YY11474		0.44	0.003	0.29	2.16	9.2	<0.02	<10	230	0.44	0.38	0.33	0.18	20.6	8.5	27
YY11475		0.50	0.005	0.33	2.10	8.6	<0.02	<10	220	0.42	1.28	0.34	0.20	17.35	6.6	25
YY11476		0.42	0.001	0.29	1.85	10.3	<0.02	<10	190	0.41	0.36	0.38	0.17	20.1	5.7	23
YY11477		0.45	0.001	0.22	1.78	8.2	<0.02	<10	160	0.46	0.41	0.35	0.23	21.8	6.6	24
YY11478		0.38	0.001	0.28	1.96	8.7	<0.02	<10	180	0.50	0.57	0.42	0.19	22.2	6.2	25
YY11479		0.33	0.002	0.28	2.00	8.2	<0.02	<10	170	0.55	0.51	0.36	0.22	21.0	5.8	23
YY11480		0.44	0.001	0.25	2.17	10.8	<0.02	<10	150	0.50	0.65	0.33	0.25	19.90	8.3	24

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ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY11441		2.40	33.1	3.33	8.29	<0.05	<0.02	0.02	0.039	0.07	12.9	18.5	0.50	282	2.25	<0.01
YY11442		4.27	17.0	3.08	8.47	<0.05	0.04	0.05	0.027	0.14	16.5	21.2	0.53	330	1.06	0.01
YY11443		1.97	12.9	2.13	6.56	<0.05	<0.02	0.06	0.032	0.03	14.6	9.7	0.31	107	0.84	0.01
YY11444		9.97	78.8	3.73	11.95	0.05	0.06	0.07	0.030	0.14	24.9	29.0	0.54	260	10.35	0.01
YY11445		1.82	27.7	3.06	6.32	<0.05	0.08	0.04	0.028	0.06	11.8	17.0	0.46	280	6.97	0.01
YY11446		2.52	25.5	2.83	8.95	0.05	<0.02	0.02	0.021	0.09	14.9	12.5	0.32	405	12.20	0.01
YY11447		1.49	24.2	2.50	6.79	0.05	0.02	0.02	0.024	0.04	13.2	11.2	0.36	233	14.30	0.01
YY11448		1.64	42.0	2.79	5.90	0.07	0.08	0.02	0.023	0.05	20.8	15.7	0.54	334	14.10	0.02
YY11449		2.80	29.9	3.28	6.94	<0.05	0.06	0.05	0.028	0.05	12.0	16.0	0.51	342	4.65	0.02
YY11450		4.22	36.8	3.54	9.30	0.05	0.08	0.04	0.034	0.06	16.3	20.7	0.50	249	6.10	0.01
YY11451		3.14	48.6	3.29	8.00	0.05	0.10	0.02	0.027	0.09	14.8	15.6	0.48	232	5.79	0.02
YY11452		2.46	29.5	3.01	8.14	0.06	<0.02	0.02	0.016	0.08	18.8	16.0	0.45	315	3.27	0.02
YY11453		3.14	44.1	3.25	7.83	0.05	<0.02	0.03	0.037	0.08	18.1	15.7	0.43	352	3.63	0.01
YY11454		4.78	34.4	3.25	9.55	0.06	0.02	0.03	0.028	0.12	22.2	22.9	0.48	459	4.65	0.01
YY11455		2.70	19.6	2.84	7.25	0.05	0.02	0.03	0.023	0.08	19.8	20.0	0.50	359	7.78	0.02
YY11456		1.71	19.1	1.49	5.21	<0.05	<0.02	0.04	0.012	0.04	11.4	5.3	0.18	73	7.44	0.02
YY11457		2.32	19.9	2.32	8.46	<0.05	<0.02	0.02	0.015	0.06	16.2	12.8	0.33	190	15.55	0.01
YY11458		2.64	21.7	2.75	8.65	0.05	<0.02	0.34	0.022	0.07	20.4	17.0	0.41	238	11.70	0.02
YY11459		2.49	30.8	2.88	7.42	0.05	0.02	0.03	0.027	0.06	18.7	18.0	0.52	291	10.10	0.02
YY11460		2.60	27.8	2.89	7.18	0.07	0.03	0.03	0.085	0.06	22.4	18.5	0.52	376	9.06	0.02
YY11461		1.05	24.7	2.78	6.22	0.06	0.02	0.03	0.028	0.04	15.6	12.8	0.49	340	4.35	0.02
YY11462		1.77	20.4	3.15	7.14	0.05	0.03	0.02	0.030	0.05	15.1	14.3	0.51	592	3.98	0.02
YY11463		4.55	39.7	2.55	8.11	0.12	0.02	0.03	0.034	0.10	23.8	26.4	0.50	272	9.37	0.02
YY11464		3.04	42.7	2.16	6.98	0.06	0.02	0.04	0.035	0.07	19.5	35.0	0.56	194	13.50	0.02
YY11465		1.56	15.2	2.23	7.05	0.05	<0.02	0.03	0.028	0.07	12.6	12.0	0.43	269	0.88	0.02
YY11466		1.80	12.1	1.90	7.32	0.05	<0.02	0.05	0.030	0.07	10.6	10.6	0.43	179	0.57	0.02
YY11467		2.63	21.7	2.49	7.08	0.05	<0.02	0.03	0.028	0.06	14.0	14.5	0.47	242	13.95	0.02
YY11468		2.86	24.8	3.19	7.92	0.05	0.02	0.05	0.037	0.09	14.0	17.6	0.55	528	16.15	0.02
YY11469		2.53	21.4	2.48	7.08	0.05	<0.02	0.05	0.028	0.07	12.4	14.4	0.51	280	9.31	0.02
YY11470		2.40	22.8	2.55	6.89	0.06	<0.02	0.04	0.029	0.06	13.5	15.6	0.52	359	8.51	0.02
YY11471		2.25	15.6	2.27	6.32	<0.05	<0.02	0.04	0.026	0.06	11.4	14.5	0.50	315	8.58	0.02
YY11472		2.40	12.9	2.42	6.54	0.05	<0.02	0.04	0.026	0.06	11.3	13.4	0.50	425	6.29	0.02
YY11473		1.91	12.2	2.22	5.93	0.05	<0.02	0.03	0.026	0.06	10.2	13.8	0.48	410	1.66	0.02
YY11474		2.01	15.6	2.33	6.49	0.05	<0.02	0.04	0.027	0.06	11.3	14.6	0.47	349	1.69	0.02
YY11475		2.02	15.5	2.24	6.27	<0.05	<0.02	0.05	0.022	0.07	8.7	12.6	0.44	300	1.22	0.02
YY11476		2.24	17.5	2.21	6.38	0.05	<0.02	0.03	0.025	0.06	10.7	12.2	0.44	203	1.03	0.02
YY11477		2.27	19.0	2.31	6.55	0.05	<0.02	0.03	0.023	0.06	11.4	12.3	0.48	267	1.08	0.02
YY11478		2.88	19.8	2.41	6.48	0.05	<0.02	0.03	0.024	0.06	11.9	12.4	0.49	266	1.08	0.02
YY11479		3.20	17.0	2.34	7.19	0.05	<0.02	0.02	0.029	0.06	11.3	13.0	0.47	231	1.02	0.02
YY11480		2.95	20.5	2.76	7.35	0.05	0.03	0.04	0.032	0.06	10.5	14.3	0.46	274	1.26	0.02

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ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY11441		1.56	24.9	520	84.0	13.5	<0.001	0.02	0.89	4.4	0.7	0.6	24.1	<0.01	0.06	2.1
YY11442		2.46	17.0	690	29.0	17.6	<0.001	0.01	0.52	4.1	0.3	0.5	127.5	0.01	0.03	5.9
YY11443		0.63	8.6	950	125.0	5.3	<0.001	0.02	0.54	1.0	0.4	0.5	47.0	<0.01	0.02	0.2
YY11444		2.33	15.0	900	353	36.5	<0.001	0.01	3.04	4.9	0.4	0.6	119.0	<0.01	0.05	12.9
YY11445		1.48	19.5	320	42.3	15.3	<0.001	<0.01	0.62	3.6	0.3	0.5	43.2	<0.01	0.03	8.0
YY11446		1.41	7.6	810	40.3	27.4	0.001	0.02	0.73	2.2	0.4	0.6	79.8	<0.01	0.04	5.0
YY11447		1.21	12.6	460	60.8	11.7	<0.001	0.01	0.60	3.0	0.4	0.5	26.5	<0.01	0.04	3.3
YY11448		0.66	19.7	430	17.9	11.3	0.001	0.01	0.50	5.2	0.3	0.5	35.4	<0.01	0.04	6.4
YY11449		1.69	25.9	390	14.9	14.7	<0.001	0.02	0.55	3.8	0.6	0.6	23.1	0.01	0.04	4.1
YY11450		1.65	18.7	340	27.4	15.8	0.001	0.02	0.64	4.1	0.6	0.8	26.3	<0.01	0.06	10.0
YY11451		1.99	18.7	300	15.5	17.9	0.001	0.04	0.62	3.8	0.8	0.8	42.7	0.01	0.07	11.5
YY11452		1.09	8.0	1070	20.0	14.0	<0.001	0.02	0.36	1.9	0.3	0.6	105.5	<0.01	0.06	6.3
YY11453		1.25	10.3	980	109.5	12.8	<0.001	0.03	0.55	2.0	0.4	0.5	90.8	0.01	0.05	5.0
YY11454		1.28	11.1	1100	46.6	19.8	<0.001	0.02	0.37	2.3	0.3	0.5	129.5	<0.01	0.07	7.1
YY11455		1.32	12.0	890	28.3	15.6	<0.001	0.01	0.33	2.7	0.3	0.5	89.4	<0.01	0.08	12.3
YY11456		0.26	4.8	660	14.5	8.6	<0.001	0.05	0.16	0.3	0.5	0.3	55.8	<0.01	0.05	<0.2
YY11457		1.31	5.4	680	16.7	12.4	<0.001	0.02	0.23	1.5	0.2	0.5	109.5	<0.01	0.05	3.8
YY11458		1.35	9.5	770	21.8	14.3	<0.001	0.02	0.31	2.1	0.3	0.6	84.3	<0.01	0.04	3.2
YY11459		1.17	15.4	650	31.7	14.0	<0.001	0.02	0.43	2.9	0.4	0.6	58.4	<0.01	0.08	3.8
YY11460		1.14	14.8	680	124.5	14.1	<0.001	0.02	0.60	3.4	0.6	0.5	66.2	<0.01	0.07	5.9
YY11461		1.10	17.7	580	44.1	8.6	<0.001	0.02	0.60	3.2	0.3	0.5	42.8	<0.01	0.03	2.7
YY11462		1.44	17.7	600	44.4	9.5	<0.001	0.01	0.54	3.3	0.2	0.6	36.8	<0.01	0.02	4.2
YY11463		1.34	12.4	720	105.5	18.7	<0.001	0.04	0.79	3.5	0.7	0.5	58.0	<0.01	0.03	6.4
YY11464		1.15	22.4	810	77.5	13.9	0.002	0.12	0.67	3.2	1.1	0.5	55.7	<0.01	0.03	1.8
YY11465		1.01	16.7	620	12.6	11.1	<0.001	0.04	0.29	2.5	0.5	0.5	35.2	<0.01	0.02	0.6
YY11466		1.45	13.8	380	28.3	12.1	<0.001	0.03	0.21	2.8	0.2	0.6	34.3	0.01	0.02	0.8
YY11467		1.14	12.0	620	27.0	13.4	<0.001	0.04	0.25	2.9	0.3	0.7	53.3	<0.01	0.04	1.9
YY11468		1.20	14.6	710	69.8	17.5	<0.001	0.03	0.68	3.4	0.3	0.8	67.9	<0.01	0.05	3.6
YY11469		1.07	14.6	670	21.4	15.6	<0.001	0.05	0.28	3.1	0.4	0.7	50.0	<0.01	0.04	1.2
YY11470		1.12	15.7	660	20.1	14.4	<0.001	0.04	0.28	3.4	0.2	0.6	45.3	<0.01	0.03	1.8
YY11471		0.98	14.4	620	15.4	12.4	<0.001	0.04	0.25	3.0	0.2	0.6	34.1	<0.01	0.03	1.1
YY11472		1.02	14.3	670	21.5	12.2	<0.001	0.04	0.27	3.1	0.2	0.6	39.0	<0.01	0.02	0.9
YY11473		0.95	15.1	570	22.7	9.4	<0.001	0.03	0.25	2.9	0.3	0.5	34.1	<0.01	0.01	1.1
YY11474		0.98	16.8	660	27.3	10.6	<0.001	0.04	0.27	3.3	0.4	0.5	32.9	<0.01	0.02	1.1
YY11475		0.95	15.9	670	28.1	10.5	<0.001	0.04	0.28	2.6	<0.2	0.5	34.0	<0.01	0.02	0.8
YY11476		1.08	15.5	560	45.2	10.3	<0.001	0.03	0.31	2.7	0.2	0.6	37.6	<0.01	0.02	0.9
YY11477		1.19	16.0	580	66.1	10.0	<0.001	0.03	0.33	2.8	0.3	0.6	35.2	<0.01	0.02	1.4
YY11478		1.05	15.5	750	89.5	9.8	<0.001	0.04	0.32	2.8	0.2	0.6	38.8	<0.01	0.02	1.1
YY11479		1.36	14.4	510	77.5	10.3	0.001	0.02	0.32	3.2	0.3	0.6	36.8	<0.01	0.02	1.8
YY11480		1.54	17.5	430	24.8	9.2	<0.001	0.04	0.43	3.0	0.3	0.6	39.8	<0.01	0.03	1.7

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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VANCOUVER BC V6B 1L8

Finalized Date: 6-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198397

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY11441		0.078	0.25	1.17	115	0.22	3.99	110	0.7
YY11442		0.100	0.22	1.25	66	0.23	5.31	57	1.4
YY11443		0.035	0.13	1.43	46	0.38	3.61	56	<0.5
YY11444		0.099	0.39	5.12	66	1.82	6.23	136	1.9
YY11445		0.074	0.18	1.92	61	1.79	3.43	94	3.8
YY11446		0.059	0.24	2.15	62	4.44	2.95	95	0.6
YY11447		0.074	0.14	1.53	59	3.46	3.23	81	0.9
YY11448		0.086	0.15	3.30	58	4.95	8.48	58	4.1
YY11449		0.087	0.15	1.06	68	6.45	3.29	68	2.8
YY11450		0.088	0.25	1.88	74	1.87	3.77	71	3.8
YY11451		0.097	0.24	2.08	69	11.75	3.07	50	4.4
YY11452		0.083	0.15	3.20	68	5.68	3.47	64	0.5
YY11453		0.073	0.15	2.57	68	6.39	3.28	82	0.6
YY11454		0.080	0.20	3.32	69	3.54	3.76	92	0.6
YY11455		0.074	0.20	3.69	60	5.94	3.57	73	0.8
YY11456		0.015	0.11	4.76	29	2.52	2.04	26	<0.5
YY11457		0.068	0.19	1.88	57	3.83	2.58	38	0.5
YY11458		0.080	0.19	2.84	61	1.85	3.85	50	0.7
YY11459		0.079	0.17	2.17	61	3.85	3.87	80	0.6
YY11460		0.073	0.18	2.17	58	2.77	4.65	185	1.1
YY11461		0.074	0.08	2.13	62	0.83	5.30	75	0.9
YY11462		0.080	0.11	1.61	70	1.62	3.62	82	1.3
YY11463		0.081	0.21	5.89	49	7.43	6.13	155	0.8
YY11464		0.071	0.24	5.87	52	1.93	8.01	155	0.5
YY11465		0.058	0.09	1.07	46	0.28	4.99	60	<0.5
YY11466		0.070	0.12	0.85	37	0.27	3.71	59	<0.5
YY11467		0.072	0.15	1.67	52	1.98	3.91	66	0.6
YY11468		0.078	0.15	1.82	64	1.91	4.26	84	0.7
YY11469		0.068	0.16	1.71	54	1.01	4.56	61	0.6
YY11470		0.070	0.14	1.62	55	0.92	4.61	61	0.6
YY11471		0.068	0.12	1.19	52	0.46	3.99	58	0.5
YY11472		0.065	0.13	0.84	57	0.31	4.08	60	0.5
YY11473		0.061	0.11	0.67	51	0.30	3.61	59	0.5
YY11474		0.063	0.12	0.87	52	0.37	4.11	63	0.6
YY11475		0.061	0.10	0.76	51	0.48	3.66	65	0.5
YY11476		0.069	0.12	0.71	52	0.47	4.23	58	0.6
YY11477		0.074	0.08	0.68	55	0.38	4.22	66	0.8
YY11478		0.071	0.11	0.84	58	0.55	4.88	71	0.6
YY11479		0.081	0.12	0.68	57	0.51	4.26	68	0.8
YY11480		0.078	0.10	0.62	61	3.94	3.40	54	1.0

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North Vancouver BC V7H 0A7
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Finalized Date: 6-SEP-2019
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CERTIFICATE OF ANALYSIS WH19198397

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY11481		0.44	0.001	0.12	2.74	12.6	<0.02	<10	240	0.67	0.28	0.46	0.25	25.4	10.3	29
YY11482		0.45	0.002	0.46	1.89	17.9	<0.02	<10	210	0.53	0.59	0.49	0.22	25.9	7.3	22
YY11483		0.46	0.001	0.37	1.89	15.7	<0.02	<10	200	0.62	0.61	0.59	0.21	30.7	4.6	21
YY11484		0.37	0.002	0.50	1.63	17.9	0.03	<10	180	0.47	0.65	0.53	0.12	30.9	4.9	18
YY11485		0.45	0.003	0.59	1.88	11.8	<0.02	<10	210	0.41	0.88	0.50	0.22	26.2	6.5	22
YY11486		0.41	0.002	0.90	1.82	11.8	<0.02	<10	270	0.59	0.90	0.68	0.35	39.9	16.8	20
YY11487		0.43	0.001	0.66	1.93	9.7	<0.02	<10	230	0.44	0.73	0.43	0.17	24.6	5.9	22
YY11488		0.43	0.003	0.52	2.21	13.9	<0.02	<10	250	0.49	0.77	0.39	0.20	21.8	7.6	27
YY11489		0.44	0.001	0.40	1.90	8.5	<0.02	<10	220	0.41	0.59	0.42	0.19	18.10	6.8	23
YY11490		0.37	0.002	0.61	2.14	11.3	<0.02	<10	280	0.56	1.10	0.59	0.48	20.4	7.2	25
YY11491		0.37	0.003	0.29	2.03	9.4	<0.02	<10	260	0.57	1.47	0.64	0.43	20.9	7.5	23
YY11492		0.42	0.001	0.22	1.95	7.9	<0.02	<10	180	0.51	2.26	0.43	0.32	18.45	6.8	24
YY11493		0.39	<0.001	0.44	2.02	6.4	<0.02	<10	170	0.51	0.25	0.22	0.63	19.45	6.1	22
YY11494		0.33	<0.001	0.13	2.50	9.2	<0.02	<10	200	0.76	0.24	0.40	0.96	23.7	9.2	29
YY11495		0.37	<0.001	0.14	1.90	7.7	<0.02	<10	240	0.44	0.29	0.41	0.46	15.25	5.8	21
YY11496		0.46	<0.001	0.09	2.13	6.4	<0.02	<10	170	0.43	0.39	0.36	0.26	16.70	8.4	60
YY11497		0.44	0.001	0.47	3.07	14.5	<0.02	<10	100	0.68	0.69	0.31	0.64	21.8	14.8	68
YY11498		0.56	0.002	0.10	2.45	8.7	<0.02	<10	200	0.67	0.21	0.55	0.23	24.1	14.2	92
YY11500		0.48	0.003	0.09	2.65	8.8	<0.02	<10	190	0.63	0.22	0.59	0.18	20.3	11.9	35

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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VANCOUVER BC V6B 1L8

Finalized Date: 6-SEP-2019
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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY11481		4.23	23.2	2.99	7.58	0.05	0.04	0.05	0.029	0.07	12.2	16.9	0.56	337	1.18	0.02
YY11482		2.55	35.0	2.47	6.31	0.05	<0.02	0.05	0.026	0.04	15.7	12.4	0.41	405	8.67	0.02
YY11483		2.70	37.2	2.26	6.36	0.05	<0.02	0.04	0.025	0.05	18.8	12.2	0.42	184	7.31	0.02
YY11484		2.53	37.8	2.24	5.69	0.07	<0.02	0.04	0.025	0.05	18.4	12.0	0.39	232	15.65	0.02
YY11485		2.60	37.4	2.27	6.31	0.05	<0.02	0.06	0.029	0.05	15.2	14.3	0.46	436	16.45	0.02
YY11486		2.52	44.6	2.50	5.98	0.06	<0.02	0.07	0.032	0.05	20.8	13.0	0.42	1040	25.5	0.02
YY11487		2.99	39.5	2.21	5.94	0.05	<0.02	0.06	0.028	0.05	13.5	12.7	0.43	233	10.55	0.02
YY11488		2.83	30.4	3.00	7.12	0.05	<0.02	0.05	0.030	0.06	11.5	14.3	0.49	307	7.11	0.02
YY11489		2.15	17.9	2.17	5.81	0.05	<0.02	0.04	0.030	0.05	8.7	12.1	0.45	331	2.79	0.02
YY11490		2.10	20.5	2.41	6.25	0.05	0.02	0.07	0.030	0.07	10.8	13.4	0.47	462	3.04	0.02
YY11491		2.57	17.7	2.39	6.21	0.05	0.02	0.05	0.029	0.06	11.2	12.8	0.47	475	2.16	0.02
YY11492		3.04	18.4	2.47	6.28	0.05	0.03	0.05	0.023	0.06	9.1	13.5	0.54	265	1.27	0.02
YY11493		2.72	15.9	2.35	7.02	<0.05	0.03	0.04	0.020	0.04	9.8	9.7	0.30	207	1.66	0.01
YY11494		2.77	17.8	2.75	7.26	<0.05	0.03	0.04	0.035	0.05	11.4	15.1	0.48	409	2.32	0.02
YY11495		3.19	11.9	2.57	7.75	<0.05	<0.02	0.06	0.029	0.04	7.0	12.1	0.39	275	2.24	0.02
YY11496		4.73	17.4	2.78	8.37	0.08	0.03	0.04	0.021	0.26	7.6	17.6	0.91	245	0.79	0.02
YY11497		7.99	33.0	3.03	10.25	<0.05	0.04	0.06	0.021	0.13	10.3	24.4	0.84	282	1.07	0.02
YY11498		5.75	31.3	2.88	8.28	0.10	0.04	0.01	0.022	0.18	12.2	29.0	1.09	327	0.74	0.02
YY11500		4.91	40.0	2.96	8.11	0.07	0.03	0.03	0.019	0.13	11.8	20.1	0.82	192	0.65	0.03

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY11481		1.68	23.4	560	20.8	9.2	<0.001	0.03	0.43	4.0	0.2	0.6	46.3	<0.01	0.04	2.9
YY11482		1.06	11.5	750	35.9	10.4	<0.001	0.04	0.46	3.7	0.2	0.5	72.2	<0.01	0.02	3.4
YY11483		1.04	10.0	870	33.2	11.0	<0.001	0.04	0.40	3.6	0.4	0.5	84.0	<0.01	0.03	4.7
YY11484		0.89	9.3	930	30.0	10.9	<0.001	0.05	0.32	3.0	0.2	0.4	65.9	<0.01	0.02	2.6
YY11485		0.89	10.6	850	33.6	10.7	<0.001	0.06	0.30	3.0	0.3	0.5	62.2	<0.01	0.03	2.1
YY11486		0.86	11.9	960	38.8	12.0	<0.001	0.08	0.43	3.4	0.5	0.5	77.0	<0.01	0.03	1.3
YY11487		0.88	11.3	790	39.6	9.7	<0.001	0.06	0.30	2.9	0.3	0.5	56.7	<0.01	0.02	1.2
YY11488		1.06	16.1	720	59.6	11.2	<0.001	0.05	0.37	3.7	0.3	0.6	42.6	<0.01	0.03	1.2
YY11489		0.93	14.1	640	54.1	9.5	<0.001	0.04	0.29	3.3	0.3	0.5	37.5	<0.01	0.02	1.0
YY11490		0.95	15.4	810	72.7	11.3	<0.001	0.06	0.45	3.5	0.5	0.5	49.3	<0.01	0.03	0.8
YY11491		1.02	14.4	750	89.5	9.4	<0.001	0.05	0.32	3.3	0.4	0.5	48.2	<0.01	0.03	0.7
YY11492		1.29	14.7	510	79.4	8.5	<0.001	0.02	0.31	3.6	<0.2	0.5	41.5	<0.01	0.05	1.6
YY11493		1.47	10.7	250	98.7	7.3	<0.001	0.02	0.33	3.1	0.3	0.7	25.6	<0.01	0.03	1.8
YY11494		1.52	16.9	490	81.5	7.7	<0.001	0.03	0.34	4.3	0.3	0.6	36.2	<0.01	0.02	2.2
YY11495		1.20	13.7	350	77.9	7.9	<0.001	0.04	0.33	2.2	<0.2	0.7	41.5	<0.01	0.03	0.6
YY11496		2.88	29.9	510	29.8	26.0	<0.001	0.04	0.27	4.7	0.4	0.6	57.1	0.01	0.03	1.9
YY11497		2.86	49.0	380	55.2	15.6	<0.001	0.04	0.83	5.0	0.4	0.6	54.3	0.01	0.06	2.6
YY11498		2.06	83.0	810	19.3	21.8	<0.001	0.02	0.42	4.6	0.3	0.5	60.5	0.01	0.02	3.0
YY11500		1.55	26.9	1100	29.9	15.7	<0.001	0.02	0.32	4.2	0.2	0.4	42.1	0.01	0.03	2.5

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 6-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198397

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY11481		0.092	0.11	0.64	66	0.52	4.51	61	1.7
YY11482		0.058	0.17	2.15	54	0.74	5.09	61	0.6
YY11483		0.064	0.18	2.45	48	0.94	5.59	59	0.6
YY11484		0.053	0.16	2.52	50	1.03	5.54	52	<0.5
YY11485		0.053	0.18	2.15	54	0.94	4.72	62	0.5
YY11486		0.043	0.18	3.05	49	1.34	8.76	64	0.5
YY11487		0.050	0.16	1.85	48	0.71	4.63	64	0.5
YY11488		0.059	0.14	1.11	63	0.41	4.67	79	0.7
YY11489		0.061	0.11	0.73	47	0.25	4.04	76	0.6
YY11490		0.057	0.11	0.97	52	0.27	5.91	100	0.8
YY11491		0.070	0.11	0.80	55	0.41	5.82	97	0.8
YY11492		0.089	0.10	0.62	58	0.33	4.14	98	1.1
YY11493		0.074	0.13	0.63	57	0.24	2.93	72	1.4
YY11494		0.076	0.11	0.82	65	0.34	4.82	101	1.3
YY11495		0.063	0.10	0.41	65	0.26	2.19	96	0.6
YY11496		0.196	0.18	0.44	83	0.30	3.11	53	1.4
YY11497		0.173	0.25	0.60	87	0.52	3.36	78	1.5
YY11498		0.189	0.19	0.64	80	0.32	4.81	59	1.8
YY11500		0.153	0.16	0.70	93	0.44	4.01	50	1.4

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Project: CN

Finalized Date: 6-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198397

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

LABORATORY ADDRESSES

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

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

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Finalized Date: 3-SEP-2019
Account: RCM

CERTIFICATE WH19198404

Project: CN

This report is for 200 Soil samples submitted to our lab in Whitehorse, YT, Canada on 12-AUG-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE	

SAMPLE PREPARATION

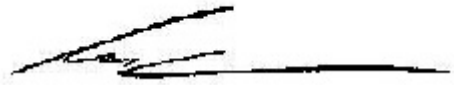
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

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

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

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS WH19198404

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18001		0.35	0.003	0.33	2.05	183.5	<0.02	<10	100	0.83	0.72	0.18	0.62	38.6	11.2	27
YY18002		0.46	0.001	0.14	2.00	58.4	<0.02	<10	130	0.79	0.22	0.30	0.36	34.3	8.5	28
YY18003		0.43	0.007	0.09	2.38	22.3	<0.02	<10	130	1.46	0.27	0.42	0.35	37.3	8.9	26
YY18004		0.45	0.003	0.16	2.49	41.7	<0.02	<10	120	1.94	0.47	0.45	0.71	50.6	8.7	22
YY18005		0.51	<0.001	0.10	3.48	25.2	<0.02	<10	100	2.08	0.29	1.32	0.32	76.8	5.8	17
YY18006		0.32	0.003	0.17	1.83	27.7	<0.02	<10	120	0.59	0.40	0.18	0.23	29.3	5.5	24
YY18007		0.36	0.002	0.21	2.36	87.4	<0.02	<10	280	1.35	0.69	0.34	0.86	56.5	9.6	27
YY18008		0.45	0.003	0.31	2.13	121.5	<0.02	<10	190	0.96	0.72	0.30	0.55	43.1	7.5	26
YY18009		0.43	0.002	0.25	2.16	107.5	<0.02	<10	160	1.00	0.47	0.29	0.49	44.0	9.5	28
YY18010		0.27	0.001	0.31	1.86	57.8	<0.02	<10	140	0.89	0.35	0.20	0.42	31.7	6.9	25
YY18011		0.28	0.001	0.30	1.78	34.0	<0.02	<10	120	0.65	0.26	0.16	0.26	25.0	6.4	25
YY18012		0.31	0.003	0.52	2.15	74.5	<0.02	<10	160	1.19	0.27	0.25	0.30	35.8	11.5	31
YY18013		0.33	0.002	0.21	1.82	37.3	<0.02	<10	190	0.99	0.20	0.31	0.30	48.9	9.8	32
YY18014		0.38	0.001	0.19	2.13	7.4	<0.02	<10	180	0.71	0.25	0.32	0.16	33.0	14.7	31
YY18015		0.40	0.001	0.20	1.79	9.2	<0.02	<10	100	0.57	0.22	0.26	0.20	24.1	6.6	24
YY18016		0.35	0.003	0.11	2.75	11.9	<0.02	<10	200	1.11	0.26	0.31	0.21	55.1	11.6	38
YY18017		0.47	0.004	0.07	2.15	9.0	<0.02	<10	160	0.72	0.22	0.28	0.22	37.9	11.0	30
YY18018		0.36	0.002	0.09	2.39	9.6	<0.02	<10	280	0.87	0.29	0.26	0.22	38.4	12.6	34
YY18019		0.42	0.002	0.07	1.62	7.3	<0.02	<10	100	0.64	0.24	0.26	0.24	29.2	7.8	26
YY18020		0.37	0.001	0.09	1.85	5.6	<0.02	<10	170	0.69	0.20	0.34	0.24	33.4	10.7	28
YY18021		0.46	0.002	0.15	2.30	9.1	<0.02	<10	160	0.76	0.23	0.25	0.20	31.0	10.8	32
YY18022		0.34	0.003	0.15	2.56	10.5	<0.02	<10	190	0.88	0.27	0.25	0.15	36.6	11.4	36
YY18023		0.34	0.002	0.08	1.96	8.3	<0.02	<10	150	0.63	0.29	0.25	0.19	32.6	9.0	32
YY18024		0.32	0.001	0.07	2.23	7.4	<0.02	<10	150	0.75	0.20	0.28	0.16	35.4	11.1	36
YY18025		0.35	0.004	0.07	1.87	7.9	<0.02	<10	180	0.66	0.20	0.28	0.22	31.4	9.4	31
YY18026		0.41	0.003	0.11	2.17	9.6	<0.02	<10	180	0.90	0.23	0.30	0.21	33.5	11.7	33
YY18027		0.31	<0.001	0.08	2.08	8.4	<0.02	<10	160	0.64	0.24	0.15	0.15	22.3	9.5	27
YY18028		0.28	<0.001	0.05	1.00	3.7	<0.02	<10	40	0.17	0.11	0.10	0.10	8.38	1.9	9
YY18029		0.28	0.003	0.05	1.53	6.7	<0.02	<10	120	0.44	0.15	0.32	0.26	27.3	8.7	28
YY18030		0.42	0.005	0.07	2.25	7.7	<0.02	<10	230	0.79	0.19	0.25	0.24	31.1	10.7	32
YY18031		0.28	0.002	0.39	2.25	15.8	<0.02	<10	220	0.82	0.26	0.28	0.33	26.8	9.9	36
YY18032		0.47	0.002	0.21	2.09	6.1	<0.02	<10	300	0.66	0.47	0.28	0.21	31.2	8.3	35
YY18033		0.33	0.002	0.07	2.35	9.0	<0.02	<10	180	0.83	0.23	0.23	0.26	31.1	9.7	32
YY18034		0.39	0.001	0.11	2.09	8.8	<0.02	<10	160	0.83	0.24	0.32	0.21	33.4	9.7	34
YY18035		0.23	<0.001	0.17	1.32	22.6	<0.02	<10	100	0.42	0.22	0.10	0.21	17.70	3.8	17
YY18036		0.29	0.002	0.40	2.28	77.7	<0.02	<10	170	0.91	0.51	0.19	0.24	31.2	7.6	30
YY18037		0.31	0.002	0.43	2.41	91.5	<0.02	<10	200	1.05	0.59	0.21	0.30	34.7	8.0	31
YY18038		0.42	0.002	0.14	1.95	103.5	<0.02	<10	110	0.97	0.66	0.25	0.28	37.7	8.6	25
YY18039		0.26	<0.001	0.15	1.80	87.8	<0.02	<10	120	0.86	0.45	0.22	0.35	37.6	9.9	21
YY18040		0.23	<0.001	0.20	1.57	38.9	<0.02	<10	140	0.70	0.26	0.13	0.25	21.9	5.9	17

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Project: CN

Finalized Date: 3-SEP-2019
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CERTIFICATE OF ANALYSIS WH19198404

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18001		2.06	28.2	2.97	6.46	0.05	0.03	0.04	0.055	0.10	17.9	18.7	0.50	586	1.41	0.02
YY18002		2.07	21.3	2.64	6.23	0.07	0.03	0.03	0.029	0.10	16.9	14.7	0.49	279	0.92	0.02
YY18003		3.30	20.5	2.79	7.48	0.06	0.04	0.03	0.033	0.17	18.5	21.9	0.64	278	0.93	0.01
YY18004		5.25	13.5	2.90	9.57	0.08	0.03	0.04	0.064	0.25	26.5	32.3	0.75	397	0.69	0.01
YY18005		8.48	12.1	2.65	12.95	0.09	0.03	0.02	0.042	0.28	32.3	23.5	0.55	378	0.53	0.01
YY18006		2.01	13.9	2.98	10.55	0.05	0.03	0.02	0.038	0.10	15.3	15.2	0.41	231	1.43	0.01
YY18007		3.38	27.3	3.13	9.52	0.09	0.02	0.02	0.064	0.17	28.0	22.5	0.61	433	0.93	0.01
YY18008		2.39	24.3	3.06	9.76	0.06	0.02	0.03	0.048	0.16	21.6	17.7	0.55	309	1.19	0.01
YY18009		2.37	23.0	3.09	8.66	0.07	0.02	0.02	0.041	0.15	21.4	21.9	0.63	371	1.04	0.01
YY18010		2.03	20.1	2.61	8.19	0.05	<0.02	0.03	0.035	0.11	15.3	14.9	0.45	341	1.04	0.01
YY18011		1.61	15.7	2.43	7.20	<0.05	<0.02	0.03	0.027	0.07	12.5	13.5	0.42	310	1.08	0.01
YY18012		1.96	17.7	3.02	7.89	0.05	0.02	0.05	0.037	0.09	15.2	19.5	0.48	728	1.61	0.02
YY18013		1.47	20.1	2.54	6.66	0.10	0.03	0.05	0.029	0.09	29.4	21.2	0.51	438	0.96	0.01
YY18014		2.20	14.4	2.91	7.91	0.06	0.03	0.03	0.033	0.13	16.6	21.4	0.69	444	2.60	0.02
YY18015		2.24	12.3	2.34	8.18	<0.05	0.03	0.04	0.030	0.12	11.8	13.1	0.40	270	0.86	0.02
YY18016		2.03	24.3	3.65	8.98	0.09	0.05	0.06	0.043	0.13	27.9	20.3	0.69	377	0.93	0.02
YY18017		1.55	21.5	3.09	7.53	0.06	0.05	0.04	0.036	0.13	18.6	17.6	0.57	398	0.89	0.02
YY18018		2.22	31.6	3.53	9.00	0.07	0.04	0.03	0.040	0.19	19.0	21.0	0.70	413	1.03	0.01
YY18019		1.36	13.1	2.39	6.29	0.05	0.02	0.03	0.023	0.11	14.4	15.4	0.52	307	0.77	0.01
YY18020		1.90	21.6	2.55	6.72	0.06	0.06	0.02	0.031	0.17	16.5	17.4	0.63	345	0.75	0.02
YY18021		1.78	23.3	3.00	7.24	0.06	0.03	0.04	0.033	0.12	15.7	17.8	0.59	371	1.00	0.01
YY18022		2.22	30.6	3.34	8.19	0.06	0.10	0.04	0.035	0.12	17.9	19.5	0.66	358	1.00	0.01
YY18023		1.72	19.9	2.91	7.43	0.06	0.03	0.01	0.028	0.12	15.6	16.0	0.61	328	0.83	0.01
YY18024		2.72	20.4	3.39	9.35	0.06	0.03	0.03	0.043	0.29	17.0	22.0	0.79	362	0.84	0.01
YY18025		1.43	20.2	2.86	6.98	0.06	0.02	0.02	0.032	0.12	15.3	16.1	0.59	388	0.89	0.02
YY18026		1.83	22.5	3.19	7.84	0.05	0.03	0.04	0.034	0.12	15.8	22.2	0.64	491	1.11	0.02
YY18027		1.70	17.6	2.67	7.66	<0.05	0.02	0.03	0.026	0.07	11.3	15.2	0.48	452	1.15	0.02
YY18028		0.62	8.8	1.17	4.71	<0.05	<0.02	0.05	0.012	0.03	4.3	3.3	0.09	62	0.77	0.02
YY18029		1.12	18.5	2.56	5.56	0.05	0.04	0.03	0.024	0.10	13.5	12.0	0.50	307	0.74	0.02
YY18030		1.88	19.9	3.16	7.85	0.06	0.04	0.03	0.030	0.15	15.2	19.3	0.66	426	1.00	0.01
YY18031		1.91	19.5	2.95	7.72	0.05	0.02	0.06	0.035	0.12	13.2	17.0	0.59	378	1.03	0.02
YY18032		1.81	31.6	2.69	7.31	0.06	0.03	0.04	0.033	0.18	15.9	17.0	0.69	200	0.63	0.02
YY18033		1.56	16.1	3.07	7.61	0.05	0.03	0.03	0.034	0.11	15.5	18.2	0.58	383	0.80	0.01
YY18034		1.86	18.9	3.06	8.03	0.06	0.03	0.03	0.035	0.15	16.6	19.0	0.64	364	0.87	0.01
YY18035		1.20	11.8	1.79	5.67	<0.05	0.02	0.04	0.020	0.05	8.9	8.7	0.25	132	0.85	0.02
YY18036		2.18	23.9	3.01	8.91	0.05	0.02	0.05	0.034	0.10	15.4	18.1	0.53	294	1.48	0.01
YY18037		2.43	23.3	3.05	9.24	0.06	0.02	0.06	0.039	0.12	17.4	19.3	0.56	293	1.32	0.02
YY18038		2.42	20.2	2.74	7.84	0.06	<0.02	0.02	0.031	0.13	17.9	21.7	0.55	388	0.91	0.01
YY18039		2.66	18.5	2.35	8.58	0.07	0.02	0.02	0.029	0.12	17.5	16.2	0.42	423	1.02	0.01
YY18040		1.59	13.8	1.94	6.51	<0.05	<0.02	0.04	0.020	0.06	10.2	9.9	0.28	275	0.76	0.02

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 3-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198404

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18001		2.15	22.8	480	241	17.2	<0.001	0.02	1.55	3.4	0.3	1.0	16.2	<0.01	0.02	5.7
YY18002		1.69	20.3	810	28.7	14.7	<0.001	0.02	0.70	3.6	0.3	0.8	21.5	<0.01	0.02	3.0
YY18003		2.17	21.4	860	46.1	23.4	<0.001	0.02	0.65	4.0	<0.2	2.0	28.7	0.01	0.03	8.9
YY18004		2.80	14.5	940	190.0	35.1	<0.001	0.02	0.57	4.3	0.3	2.9	30.3	0.01	0.02	13.6
YY18005		2.15	10.7	1140	66.3	36.1	<0.001	0.02	0.83	4.9	<0.2	3.3	93.6	0.01	0.03	21.0
YY18006		2.49	15.3	380	54.1	18.3	<0.001	0.03	0.53	3.2	0.2	1.6	19.5	<0.01	0.04	3.8
YY18007		2.32	19.6	810	83.0	27.1	<0.001	0.02	0.82	4.9	<0.2	2.0	30.4	<0.01	0.04	11.4
YY18008		1.89	17.1	760	70.4	24.3	<0.001	0.03	0.88	3.4	0.4	2.0	28.7	<0.01	0.05	2.9
YY18009		2.10	19.6	740	63.5	24.9	<0.001	0.02	0.76	4.3	<0.2	1.8	26.1	<0.01	0.04	5.8
YY18010		1.14	16.0	790	44.0	23.1	<0.001	0.04	0.66	2.1	0.2	1.3	21.2	<0.01	0.04	0.8
YY18011		1.04	14.2	640	44.7	14.9	<0.001	0.04	0.48	1.8	0.2	0.9	16.4	<0.01	0.04	0.6
YY18012		1.26	15.4	900	48.4	17.2	<0.001	0.07	0.55	2.3	0.2	1.4	24.7	<0.01	0.03	0.8
YY18013		1.37	20.5	840	23.7	15.0	<0.001	0.04	0.50	3.9	0.4	0.9	26.9	<0.01	0.02	2.2
YY18014		2.10	18.2	770	24.4	24.3	0.001	0.03	0.40	4.7	0.2	1.1	23.8	<0.01	0.03	5.6
YY18015		2.58	11.1	580	27.3	21.1	<0.001	0.04	0.64	3.0	0.3	1.4	18.2	0.01	0.04	2.6
YY18016		2.81	23.7	650	16.2	25.5	<0.001	0.02	0.53	7.2	0.3	1.3	24.6	0.01	0.05	7.3
YY18017		2.82	22.2	700	11.8	22.0	<0.001	0.03	0.49	4.7	0.3	1.2	19.0	0.01	0.03	5.1
YY18018		2.93	22.8	800	15.8	28.6	<0.001	0.02	0.45	6.0	0.4	1.5	20.7	<0.01	0.05	6.2
YY18019		1.55	17.4	750	21.2	16.8	<0.001	0.03	0.41	2.7	<0.2	0.8	18.6	<0.01	0.03	3.7
YY18020		2.38	18.1	940	19.7	24.2	<0.001	0.02	0.38	4.1	0.2	1.1	22.5	<0.01	0.03	7.1
YY18021		1.90	21.6	870	18.3	20.3	<0.001	0.02	0.45	4.6	0.2	1.0	19.4	<0.01	0.02	4.4
YY18022		2.14	24.7	660	16.0	21.5	<0.001	0.01	0.46	6.1	0.3	1.2	21.8	<0.01	0.04	8.5
YY18023		1.76	20.7	720	14.3	20.2	<0.001	0.02	0.40	3.7	0.2	1.1	21.5	<0.01	0.02	3.2
YY18024		3.00	21.6	780	11.5	40.3	<0.001	0.02	0.42	5.3	0.2	2.0	20.7	<0.01	0.04	6.6
YY18025		1.64	19.9	740	13.3	18.8	<0.001	0.02	0.40	4.1	0.2	1.2	21.2	<0.01	0.04	3.6
YY18026		2.00	23.5	850	16.2	20.7	<0.001	0.02	0.46	4.6	<0.2	1.3	23.9	<0.01	0.03	4.0
YY18027		1.31	17.2	550	13.0	15.2	<0.001	0.03	0.36	2.6	0.4	0.8	16.8	<0.01	0.03	0.9
YY18028		0.85	3.5	320	6.0	3.3	<0.001	0.03	0.22	0.9	0.2	0.4	11.7	0.01	0.02	0.2
YY18029		1.77	20.6	880	11.5	13.6	<0.001	0.02	0.41	3.2	0.2	0.7	19.7	<0.01	0.03	4.1
YY18030		2.40	21.0	690	14.7	23.9	<0.001	0.02	0.38	4.8	0.2	1.3	18.9	<0.01	0.03	6.1
YY18031		1.55	21.3	880	64.1	20.9	<0.001	0.06	0.50	4.3	0.4	0.9	26.2	<0.01	0.03	2.4
YY18032		2.19	19.3	760	21.2	24.7	<0.001	0.02	0.41	5.1	0.2	1.0	22.1	<0.01	0.03	5.2
YY18033		2.32	19.9	720	15.6	21.1	<0.001	0.03	0.36	4.4	0.2	1.1	17.8	<0.01	0.04	4.5
YY18034		2.35	20.3	850	12.8	25.4	<0.001	0.03	0.40	4.6	0.3	1.4	23.1	<0.01	0.04	4.3
YY18035		0.90	8.8	480	14.5	10.5	<0.001	0.04	0.36	1.2	0.3	1.0	12.5	<0.01	0.03	0.3
YY18036		1.48	19.1	830	34.4	22.4	<0.001	0.05	0.76	3.4	0.3	2.5	21.1	<0.01	0.04	1.8
YY18037		1.63	19.3	850	45.7	24.6	<0.001	0.06	0.86	3.5	0.5	2.9	23.1	<0.01	0.04	1.8
YY18038		1.64	16.4	800	33.3	21.8	<0.001	0.02	0.70	3.2	<0.2	2.5	19.6	<0.01	0.03	3.9
YY18039		2.11	14.8	700	36.1	21.6	<0.001	0.02	0.64	3.4	0.3	2.4	20.8	<0.01	0.03	5.3
YY18040		0.85	10.3	530	22.3	14.1	<0.001	0.02	0.32	1.5	0.3	1.4	17.3	<0.01	0.02	0.3

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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VANCOUVER BC V6B 1L8

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CERTIFICATE OF ANALYSIS WH19198404

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18001		0.088	0.24	2.43	58	0.52	7.91	141	1.0
YY18002		0.089	0.15	1.80	54	0.24	8.97	74	1.0
YY18003		0.094	0.23	1.57	50	0.32	8.99	82	1.9
YY18004		0.081	0.34	1.98	46	0.34	13.00	159	1.0
YY18005		0.030	0.26	1.74	33	0.34	18.40	79	0.8
YY18006		0.092	0.16	0.93	70	0.30	4.84	81	1.2
YY18007		0.085	0.24	3.65	53	0.90	15.05	117	1.1
YY18008		0.079	0.20	3.00	60	0.54	12.05	106	0.7
YY18009		0.089	0.23	2.71	56	0.41	10.70	105	0.9
YY18010		0.061	0.17	2.67	53	0.35	8.50	84	0.5
YY18011		0.058	0.16	1.99	52	0.24	5.80	67	0.6
YY18012		0.057	0.16	2.86	60	0.24	9.34	75	0.6
YY18013		0.079	0.14	2.38	52	0.22	26.2	67	0.9
YY18014		0.110	0.22	2.05	55	0.32	8.67	81	1.2
YY18015		0.110	0.17	1.14	51	0.33	5.62	61	1.3
YY18016		0.140	0.24	2.96	71	0.33	15.25	74	2.3
YY18017		0.126	0.17	1.26	64	0.34	8.25	65	1.9
YY18018		0.146	0.24	2.69	69	0.33	9.76	70	2.1
YY18019		0.083	0.13	1.49	48	0.23	7.92	70	0.8
YY18020		0.125	0.20	1.46	52	0.30	9.41	65	2.6
YY18021		0.103	0.17	2.27	61	0.29	8.87	71	1.4
YY18022		0.124	0.22	2.42	65	0.29	8.80	72	4.7
YY18023		0.108	0.17	1.64	61	0.23	7.45	65	1.2
YY18024		0.157	0.30	1.92	66	0.41	9.02	68	1.6
YY18025		0.108	0.16	1.53	59	0.28	7.54	67	1.1
YY18026		0.110	0.16	2.09	63	0.32	9.10	71	1.2
YY18027		0.081	0.15	1.52	59	0.23	5.28	56	1.0
YY18028		0.051	0.07	0.36	31	0.10	1.28	17	0.8
YY18029		0.110	0.13	0.93	60	0.39	7.29	55	1.7
YY18030		0.137	0.21	1.31	65	0.33	7.89	71	1.9
YY18031		0.086	0.18	2.77	63	0.29	7.42	112	1.1
YY18032		0.127	0.21	2.24	55	0.25	7.82	71	1.4
YY18033		0.116	0.16	1.42	65	0.38	6.85	69	1.4
YY18034		0.125	0.19	1.86	64	0.39	8.76	70	1.4
YY18035		0.047	0.10	1.27	38	0.34	4.07	37	0.7
YY18036		0.069	0.20	3.03	62	2.09	7.89	80	0.9
YY18037		0.070	0.23	3.23	59	0.72	8.30	83	0.9
YY18038		0.077	0.18	2.21	50	0.52	8.55	75	0.6
YY18039		0.075	0.19	2.10	45	0.41	8.51	63	0.6
YY18040		0.050	0.13	1.57	40	0.22	5.24	41	<0.5

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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VANCOUVER BC V6B 1L8

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Finalized Date: 3-SEP-2019
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CERTIFICATE OF ANALYSIS WH19198404

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18041		0.22	0.002	0.38	2.12	74.9	<0.02	<10	210	0.99	0.49	0.26	0.20	33.5	5.8	26
YY18042		0.35	0.002	0.12	2.51	81.7	<0.02	<10	220	1.25	0.45	0.31	0.28	39.1	9.2	32
YY18043		0.36	0.002	0.13	2.31	95.3	<0.02	<10	200	1.01	0.52	0.30	0.33	36.4	10.9	30
YY18044		0.34	0.002	0.11	1.71	69.7	<0.02	<10	130	0.79	0.27	0.35	0.25	39.9	7.8	28
YY18045		0.40	0.003	0.15	2.15	83.9	<0.02	<10	140	1.19	0.26	0.45	0.64	48.3	8.9	27
YY18046		0.24	0.001	0.05	1.64	5.7	<0.02	<10	90	0.60	0.21	0.16	0.14	31.6	4.8	18
YY18047		0.34	0.003	0.09	2.64	13.1	<0.02	<10	160	1.43	0.66	0.31	0.29	44.4	9.4	28
YY18048		0.50	0.004	0.36	1.78	534	<0.02	<10	200	0.77	0.45	0.40	0.47	38.2	9.2	30
YY18049		0.35	0.001	0.03	1.92	12.1	<0.02	<10	100	0.56	0.19	0.23	0.20	32.4	8.2	25
YY18050		0.36	0.006	0.06	1.96	12.3	<0.02	<10	140	0.97	0.25	0.39	0.26	51.7	10.1	26
YY18051		0.40	0.005	0.25	1.82	158.5	<0.02	<10	120	0.86	0.36	0.27	0.77	43.7	8.0	23
YY18052		0.45	0.002	0.11	1.79	60.7	<0.02	<10	90	1.02	0.23	0.32	0.31	93.4	8.4	21
YY18053		0.47	0.005	0.14	1.86	41.3	<0.02	<10	170	0.71	0.32	0.41	0.32	44.4	10.6	26
YY18054		0.35	0.002	0.02	1.85	12.8	<0.02	<10	60	0.43	0.21	0.12	0.12	27.8	5.6	26
YY18055		0.39	0.004	0.72	1.91	740	<0.02	<10	180	1.70	1.32	0.22	2.69	126.5	12.4	30
YY18056		0.36	0.070	8.59	1.63	7400	0.05	<10	120	0.97	233	0.16	1.15	103.5	6.7	23
YY18057		0.34	0.002	0.17	1.70	43.0	<0.02	<10	130	0.69	0.51	0.33	0.33	42.4	8.6	28
YY18058		0.40	0.004	0.20	1.65	23.4	<0.02	<10	220	0.72	0.32	0.42	0.46	61.8	9.5	27
YY18059		0.37	0.002	0.12	1.62	11.1	<0.02	<10	120	0.78	0.18	0.34	0.18	53.9	7.6	24
YY18060		0.37	0.001	0.17	1.85	21.4	<0.02	<10	110	0.88	0.27	0.43	0.34	44.1	7.5	27
YY18061		0.42	0.001	0.11	1.83	20.6	<0.02	<10	140	0.99	0.27	0.36	0.26	59.3	7.6	23
YY18062		0.50	0.001	0.15	1.84	24.4	<0.02	<10	140	0.92	0.47	0.31	0.28	43.9	8.7	25
YY18063		0.34	0.002	0.22	2.17	29.9	<0.02	<10	160	0.82	0.32	0.19	0.19	62.2	9.1	32
YY18064		0.41	0.002	0.13	1.84	40.7	<0.02	<10	140	0.80	0.26	0.38	0.33	46.8	10.6	28
YY18065		0.46	0.003	0.17	1.76	70.1	<0.02	<10	160	0.79	0.25	0.39	0.42	45.9	10.5	27
YY18066		0.29	0.005	0.44	2.31	134.5	<0.02	<10	140	1.21	0.37	0.22	0.68	49.4	11.0	32
YY18067		0.31	0.005	0.09	1.92	29.9	<0.02	<10	100	0.65	0.21	0.21	0.34	33.0	9.7	27
YY18068		0.38	0.001	0.08	2.10	20.2	<0.02	<10	120	0.75	0.29	0.31	0.14	40.4	11.3	27
YY18069		0.29	<0.001	0.05	2.76	15.8	<0.02	<10	220	1.10	0.36	0.30	0.23	41.3	10.8	26
YY18070		0.31	0.011	0.61	2.80	273	0.02	<10	300	1.27	0.50	0.37	0.41	89.3	13.8	38
YY18071		0.40	0.001	0.05	2.20	21.7	<0.02	<10	110	0.84	0.38	0.32	0.16	44.8	8.7	27
YY18072		0.40	0.004	0.88	1.87	259	<0.02	<10	120	1.00	0.61	0.35	2.57	73.5	9.5	23
YY18073		0.40	0.003	0.26	2.20	131.5	<0.02	<10	100	0.50	0.37	0.15	0.36	28.7	8.8	29
YY18074		0.30	0.005	0.36	2.32	114.5	<0.02	<10	150	0.75	0.44	0.27	0.40	36.0	11.5	50
YY18075		0.43	0.007	0.09	2.02	63.0	<0.02	<10	120	0.59	0.27	0.14	0.31	33.2	10.3	28
YY18076		0.35	0.002	0.17	2.26	119.5	<0.02	<10	100	0.90	0.33	0.15	0.28	38.1	7.8	30
YY18077		0.36	0.007	0.29	1.70	163.5	<0.02	<10	110	0.82	0.30	0.30	0.40	50.7	8.6	26
YY18078		0.37	0.005	0.25	1.87	44.7	<0.02	<10	150	0.60	0.35	0.30	0.22	35.4	8.2	27
YY18079		0.25	0.005	0.28	1.98	24.7	<0.02	<10	130	0.54	0.31	0.18	1.10	27.4	8.8	32
YY18080		0.45	0.001	0.10	1.93	22.5	<0.02	<10	200	0.81	0.19	0.36	0.33	47.7	9.0	26

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ALS Canada Ltd.
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Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18041		1.87	20.4	2.50	8.59	0.05	<0.02	0.06	0.036	0.09	16.2	14.1	0.45	224	1.15	0.02
YY18042		2.87	21.0	3.48	9.79	0.07	0.03	0.02	0.042	0.15	18.5	24.9	0.71	387	1.03	0.01
YY18043		2.44	19.7	3.27	10.00	0.07	0.02	0.03	0.034	0.13	17.3	22.9	0.58	559	1.26	0.01
YY18044		1.93	20.1	2.58	6.67	0.09	0.03	0.02	0.027	0.12	19.0	16.5	0.53	379	0.74	0.02
YY18045		3.28	22.6	2.74	8.32	0.09	0.03	0.02	0.037	0.13	21.7	18.3	0.56	504	0.70	0.01
YY18046		2.14	8.7	2.11	9.97	0.05	0.02	0.04	0.020	0.08	15.7	16.0	0.36	166	0.72	0.01
YY18047		4.84	20.4	3.40	10.75	0.12	0.03	0.04	0.041	0.44	21.3	32.3	0.93	442	0.88	0.02
YY18048		1.90	25.8	3.08	6.52	0.09	0.05	0.04	0.042	0.16	18.1	17.9	0.57	314	0.77	0.02
YY18049		1.58	16.9	2.56	7.04	0.06	0.03	0.03	0.029	0.10	15.8	16.0	0.54	262	0.72	0.01
YY18050		3.44	25.8	2.80	7.46	0.09	0.03	0.03	0.032	0.12	23.3	18.9	0.60	386	0.89	0.02
YY18051		3.14	18.4	2.56	6.79	0.07	0.02	0.05	0.052	0.11	19.8	16.8	0.57	419	0.79	0.01
YY18052		4.57	18.3	2.68	7.72	0.09	0.02	0.02	0.030	0.15	29.8	18.8	0.62	417	0.96	0.02
YY18053		3.60	20.6	3.13	7.13	0.10	0.05	0.03	0.034	0.33	21.6	21.1	0.85	422	0.88	0.02
YY18054		1.36	13.2	2.57	8.51	0.05	0.03	0.04	0.022	0.06	13.0	11.1	0.32	189	0.95	0.01
YY18055		4.03	73.3	3.73	8.21	0.15	0.03	0.03	0.075	0.21	52.2	18.6	0.58	625	3.97	0.02
YY18056		5.34	208	3.99	8.72	0.14	0.03	0.04	0.512	0.32	55.7	16.4	0.46	320	2.47	0.02
YY18057		1.90	19.5	2.54	7.28	0.08	0.03	0.05	0.036	0.11	20.4	15.8	0.47	357	0.97	0.01
YY18058		1.84	27.5	2.56	6.37	0.12	0.04	0.04	0.042	0.10	29.7	16.1	0.52	385	0.81	0.02
YY18059		2.23	17.1	2.44	6.27	0.09	0.03	0.03	0.033	0.12	25.6	15.4	0.49	296	0.61	0.02
YY18060		3.59	14.5	2.82	8.39	0.08	0.02	0.03	0.043	0.14	22.9	21.2	0.65	369	0.78	0.02
YY18061		4.87	15.8	2.78	9.02	0.10	0.02	0.03	0.037	0.24	27.7	22.4	0.79	428	0.81	0.01
YY18062		3.31	16.1	2.82	7.62	0.07	0.02	0.03	0.031	0.15	21.1	19.6	0.58	424	0.87	0.01
YY18063		3.80	13.7	2.83	8.63	0.09	0.02	0.07	0.035	0.12	30.9	18.1	0.59	299	1.01	0.01
YY18064		3.10	17.5	2.79	7.47	0.08	0.02	0.02	0.030	0.15	22.3	19.9	0.65	427	0.98	0.02
YY18065		2.79	21.1	2.60	6.80	0.08	0.02	0.03	0.034	0.11	21.8	17.1	0.51	476	1.31	0.02
YY18066		5.00	30.0	3.12	8.43	0.07	0.02	0.06	0.050	0.10	23.8	20.5	0.55	488	1.37	0.02
YY18067		1.63	16.4	2.85	6.31	0.06	0.02	0.06	0.038	0.07	14.9	16.0	0.42	388	1.04	0.01
YY18068		2.74	24.6	3.10	7.79	0.08	0.03	0.04	0.029	0.15	19.5	20.8	0.61	334	1.15	0.02
YY18069		6.70	22.4	3.79	12.35	0.07	0.03	0.03	0.035	0.31	17.9	27.4	0.85	342	0.94	0.01
YY18070		5.60	37.4	3.76	10.65	0.15	0.04	0.05	0.058	0.34	47.3	31.8	0.90	421	1.68	0.02
YY18071		2.97	16.6	2.63	7.53	0.08	0.03	0.02	0.023	0.22	21.4	22.5	0.68	212	0.45	0.01
YY18072		4.83	22.9	3.00	7.71	0.13	0.03	0.02	0.093	0.27	34.6	23.6	0.68	852	1.03	0.01
YY18073		1.55	17.6	2.92	7.62	<0.05	0.04	0.06	0.032	0.07	13.6	15.6	0.45	286	1.13	0.01
YY18074		3.26	21.6	3.24	7.81	0.06	0.03	0.04	0.037	0.20	16.9	21.2	0.84	372	1.07	0.02
YY18075		1.52	23.3	2.78	6.02	0.05	0.03	0.07	0.034	0.06	13.8	16.6	0.50	378	1.08	0.01
YY18076		1.66	17.9	2.83	7.14	0.05	0.04	0.04	0.040	0.06	18.6	19.2	0.42	273	1.09	0.01
YY18077		2.41	24.0	2.60	6.73	0.09	0.03	0.04	0.043	0.14	24.3	19.3	0.55	314	0.96	0.01
YY18078		2.07	14.8	2.61	6.67	0.07	0.03	0.03	0.027	0.12	18.5	18.0	0.56	219	1.02	0.01
YY18079		3.04	13.4	3.27	9.25	<0.05	0.02	0.06	0.033	0.15	15.0	20.2	0.61	396	2.24	0.01
YY18080		3.44	18.0	3.14	8.22	0.09	0.04	0.03	0.035	0.36	24.1	24.2	0.67	385	1.34	0.01

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Project: CN

Finalized Date: 3-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198404

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18041		1.52	16.3	880	38.5	16.3	<0.001	0.07	0.57	2.4	0.4	1.9	30.5	<0.01	0.04	0.6
YY18042		2.42	22.4	760	43.6	24.2	<0.001	0.02	0.67	5.2	0.4	3.0	28.9	<0.01	0.03	6.4
YY18043		2.44	22.3	760	35.6	22.1	<0.001	0.03	0.71	4.5	0.3	2.0	29.5	<0.01	0.03	5.7
YY18044		1.76	19.1	920	22.4	18.6	<0.001	0.02	0.56	4.7	0.4	1.5	24.2	<0.01	0.02	8.1
YY18045		1.97	20.4	810	49.9	19.6	<0.001	0.01	1.37	5.3	0.4	2.6	30.7	0.01	0.02	8.9
YY18046		2.68	12.1	320	13.3	16.0	<0.001	0.02	0.37	2.5	<0.2	2.5	18.0	0.01	0.02	3.3
YY18047		3.03	20.9	760	42.7	71.0	<0.001	0.01	0.54	6.0	0.4	3.1	29.7	<0.01	0.03	8.0
YY18048		1.27	20.7	820	71.3	25.0	<0.001	0.05	1.16	6.2	0.3	1.3	29.2	<0.01	0.02	9.6
YY18049		2.12	20.0	570	13.5	19.0	<0.001	0.02	0.44	3.5	0.4	4.1	16.1	<0.01	0.02	4.0
YY18050		1.99	22.2	1010	18.7	21.8	<0.001	0.02	0.46	4.1	0.4	2.1	26.5	0.01	0.02	8.0
YY18051		1.56	17.5	810	189.0	20.7	<0.001	0.03	1.15	2.8	0.3	2.3	17.6	<0.01	0.02	4.0
YY18052		1.57	17.6	1260	42.5	22.2	<0.001	0.03	0.65	2.9	0.3	3.0	15.5	<0.01	0.02	8.8
YY18053		2.30	22.0	1030	38.1	43.0	<0.001	0.02	0.56	4.1	0.3	2.1	24.2	<0.01	0.02	9.2
YY18054		2.51	14.7	280	13.8	10.4	<0.001	0.02	0.48	3.1	0.4	0.9	10.3	<0.01	0.03	3.9
YY18055		2.24	18.1	620	329	32.8	<0.001	0.07	1.96	5.3	0.3	1.5	20.2	<0.01	0.03	26.1
YY18056		1.99	15.6	630	483	42.8	<0.001	0.29	29.2	4.5	0.4	3.9	16.7	<0.01	0.29	27.4
YY18057		1.81	20.4	850	39.1	19.0	<0.001	0.03	0.84	3.7	0.3	1.4	23.0	<0.01	0.02	4.3
YY18058		1.77	23.4	990	83.7	17.2	<0.001	0.01	0.67	5.1	0.3	1.4	24.9	<0.01	0.02	9.0
YY18059		1.94	17.3	890	23.2	20.1	<0.001	0.02	0.45	3.8	0.2	1.8	18.3	<0.01	0.01	7.3
YY18060		1.62	18.3	840	44.5	26.5	<0.001	0.03	0.63	3.8	0.3	2.5	22.8	<0.01	0.02	6.7
YY18061		2.10	15.8	760	47.7	37.9	<0.001	0.04	0.67	3.4	<0.2	2.9	22.8	<0.01	0.02	5.7
YY18062		1.87	17.4	930	43.7	24.9	<0.001	0.03	0.74	3.1	0.2	1.9	19.5	<0.01	0.02	5.4
YY18063		1.77	16.9	860	65.3	23.5	<0.001	0.04	0.58	4.1	0.2	2.0	15.3	<0.01	0.02	3.1
YY18064		2.01	21.0	990	61.1	28.0	<0.001	0.02	0.67	3.9	0.2	1.6	21.8	<0.01	0.02	7.8
YY18065		1.53	21.8	900	76.7	19.3	<0.001	0.03	0.87	3.4	0.3	1.1	22.8	<0.01	0.03	4.1
YY18066		1.70	23.3	770	238	20.0	<0.001	0.04	2.30	3.6	0.5	1.6	18.5	<0.01	0.03	4.3
YY18067		1.48	20.3	730	71.7	11.1	<0.001	0.04	0.94	2.8	0.3	0.8	15.2	0.01	0.03	2.1
YY18068		2.02	22.8	980	17.8	24.9	<0.001	0.03	0.55	4.2	0.5	1.4	24.5	<0.01	0.02	4.1
YY18069		2.78	20.6	970	15.0	40.4	<0.001	0.04	0.61	5.9	0.4	4.8	31.7	<0.01	0.02	3.9
YY18070		2.26	29.3	970	142.0	45.7	<0.001	0.03	1.18	7.1	0.3	1.7	26.7	<0.01	0.02	8.9
YY18071		2.85	20.1	870	17.8	31.6	<0.001	0.02	0.46	4.1	0.4	1.5	19.6	<0.01	0.02	9.9
YY18072		1.39	17.1	1010	608	39.5	<0.001	0.02	1.66	4.3	0.3	1.9	23.9	<0.01	0.02	13.1
YY18073		2.04	19.9	370	64.8	11.5	<0.001	0.02	0.69	3.6	0.3	0.8	13.3	<0.01	0.03	4.4
YY18074		1.87	29.7	670	64.3	25.6	<0.001	0.03	0.70	4.4	0.5	1.1	21.4	<0.01	0.02	3.5
YY18075		1.45	27.7	370	55.9	10.5	0.001	0.03	0.70	3.2	<0.2	0.7	13.4	0.01	0.03	3.5
YY18076		1.82	19.7	610	81.0	13.2	<0.001	0.02	0.65	3.7	<0.2	1.2	11.6	0.01	0.04	7.2
YY18077		1.74	20.3	1030	99.3	23.3	<0.001	0.02	0.77	3.2	<0.2	1.6	18.0	<0.01	0.03	7.5
YY18078		1.76	21.1	960	39.8	20.1	<0.001	0.02	0.50	3.2	<0.2	1.2	19.8	<0.01	0.02	5.1
YY18079		2.16	20.1	670	48.2	30.8	<0.001	0.04	0.47	3.0	0.2	1.3	17.7	<0.01	0.05	2.4
YY18080		2.38	19.9	1200	32.7	44.3	<0.001	0.02	0.40	4.2	<0.2	1.4	19.7	<0.01	0.02	10.3

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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VANCOUVER BC V6B 1L8

Finalized Date: 3-SEP-2019
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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18041		0.055	0.19	2.98	51	0.35	8.68	67	0.6
YY18042		0.104	0.22	2.49	65	0.36	10.05	84	1.1
YY18043		0.096	0.19	1.99	67	0.56	8.97	90	1.0
YY18044		0.104	0.17	2.29	55	0.38	10.95	69	1.3
YY18045		0.103	0.19	2.64	53	0.66	13.45	122	1.2
YY18046		0.098	0.19	0.82	51	0.31	5.06	42	0.8
YY18047		0.136	0.53	1.96	54	0.54	12.00	80	1.4
YY18048		0.090	0.26	2.09	50	0.29	11.80	97	2.7
YY18049		0.107	0.15	0.75	54	0.21	7.55	54	1.2
YY18050		0.113	0.20	1.99	55	0.21	15.40	75	1.2
YY18051		0.092	0.19	1.32	50	0.23	10.40	127	0.6
YY18052		0.082	0.19	2.06	45	0.21	16.55	88	0.6
YY18053		0.129	0.35	1.85	53	0.27	12.75	78	2.0
YY18054		0.116	0.14	0.62	75	0.21	4.91	42	1.2
YY18055		0.096	0.37	17.85	53	0.18	23.9	266	1.0
YY18056		0.078	0.51	8.19	45	0.22	15.45	119	0.8
YY18057		0.085	0.17	1.62	52	0.21	11.30	82	0.9
YY18058		0.103	0.17	2.62	54	0.33	18.95	99	1.5
YY18059		0.101	0.17	1.60	50	0.23	14.75	59	1.0
YY18060		0.080	0.19	1.16	50	0.22	13.25	94	0.8
YY18061		0.102	0.29	1.71	48	0.21	14.70	84	0.7
YY18062		0.099	0.19	1.40	52	0.28	11.30	67	0.8
YY18063		0.092	0.25	2.44	57	0.21	16.75	69	0.8
YY18064		0.105	0.23	1.70	51	0.34	13.20	92	1.1
YY18065		0.090	0.19	1.92	52	0.32	12.35	100	0.9
YY18066		0.082	0.25	2.63	59	0.30	11.35	177	0.9
YY18067		0.082	0.13	0.94	58	0.37	6.98	91	0.8
YY18068		0.119	0.24	1.95	63	0.26	10.60	63	1.4
YY18069		0.139	0.41	1.39	92	0.32	9.82	69	1.1
YY18070		0.140	0.36	4.62	67	0.23	23.1	128	1.5
YY18071		0.125	0.28	1.31	47	0.22	12.35	59	1.5
YY18072		0.102	0.38	4.56	41	0.21	19.60	428	1.4
YY18073		0.097	0.19	0.71	68	0.24	4.49	68	1.5
YY18074		0.120	0.28	0.98	68	0.26	7.22	94	1.1
YY18075		0.079	0.14	0.86	58	0.27	5.37	74	1.4
YY18076		0.083	0.19	1.30	59	0.34	8.42	69	1.7
YY18077		0.094	0.20	1.89	50	0.44	13.35	109	1.1
YY18078		0.099	0.20	1.73	52	0.53	10.40	64	1.2
YY18079		0.120	0.21	1.17	74	0.31	5.78	78	1.1
YY18080		0.149	0.31	2.18	58	0.64	14.40	76	1.7

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North Vancouver BC V7H 0A7
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	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18081		0.36	0.005	0.04	1.69	8.9	<0.02	<10	140	0.54	0.15	0.30	0.27	36.2	9.5	27
YY18082		0.33	0.002	0.09	1.29	20.4	<0.02	<10	60	0.38	0.17	0.14	0.20	21.1	4.2	17
YY18083		0.36	0.003	0.06	1.84	10.5	<0.02	<10	120	0.59	0.16	0.29	0.23	34.0	9.3	25
YY18084		0.39	0.233	0.08	1.89	13.4	<0.02	<10	150	0.74	0.29	0.33	0.29	47.4	9.1	25
YY18085		0.35	0.006	0.12	1.91	32.2	<0.02	<10	130	0.65	0.22	0.25	0.35	38.9	9.1	27
YY18086		0.29	0.002	0.08	1.68	9.4	<0.02	<10	60	0.35	0.27	0.08	0.09	24.5	4.6	21
YY18087		0.32	0.002	0.14	1.70	12.2	<0.02	<10	150	0.63	0.29	0.27	0.26	38.6	6.2	21
YY18088		0.33	0.005	0.08	2.28	12.2	<0.02	<10	110	0.86	0.20	0.22	0.27	30.1	11.0	30
YY18089		0.41	0.003	0.04	2.31	12.1	<0.02	<10	150	0.61	0.17	0.14	0.43	30.9	11.0	29
YY18090		0.27	0.001	0.04	2.38	12.0	<0.02	<10	130	0.61	0.19	0.15	0.26	30.9	8.6	30
YY18091		0.34	0.002	0.05	1.69	10.9	<0.02	<10	100	0.62	0.19	0.26	0.30	37.3	8.2	25
YY18092		0.26	0.001	0.32	1.66	7.1	<0.02	<10	110	0.63	0.28	0.20	0.22	41.5	5.6	24
YY18093		0.29	0.003	0.25	1.47	8.2	<0.02	<10	130	0.52	0.30	0.29	0.31	39.2	6.4	23
YY18094		0.23	0.002	0.15	1.78	8.5	<0.02	<10	130	0.54	0.31	0.24	0.25	40.9	7.4	25
YY18095		0.31	0.002	0.15	1.97	10.0	<0.02	<10	130	0.59	0.39	0.21	0.21	42.1	7.5	29
YY18096		0.34	0.006	0.14	2.11	10.8	<0.02	<10	130	0.76	0.38	0.20	0.20	51.7	7.6	30
YY18097		0.30	0.001	0.10	2.01	13.3	<0.02	<10	80	0.61	0.20	0.11	0.14	28.4	6.8	27
YY18098		0.42	0.006	0.32	2.60	116.0	<0.02	<10	150	1.12	0.30	0.24	0.51	42.3	12.2	36
YY18099		0.40	0.002	0.12	2.08	82.9	<0.02	<10	100	0.92	0.34	0.20	0.45	38.4	8.8	28
YY18100		0.28	0.004	0.10	1.96	17.0	<0.02	<10	90	0.52	0.25	0.10	0.23	25.4	4.7	25
YY18101		0.43	0.004	0.11	2.05	23.2	<0.02	<10	150	0.90	0.24	0.28	0.43	45.5	10.8	28
YY18102		0.37	0.003	0.10	2.00	14.5	<0.02	<10	160	0.71	0.27	0.23	0.27	42.3	9.6	28
YY18103		0.33	0.014	0.05	2.09	16.4	<0.02	<10	190	0.64	0.21	0.18	0.21	35.7	9.7	28
YY18104		0.41	0.005	0.06	1.90	18.7	<0.02	<10	180	0.76	0.79	0.36	0.44	48.0	10.7	28
YY18105		0.43	0.010	0.10	1.97	11.3	<0.02	<10	160	0.57	0.26	0.41	0.26	54.5	10.8	29
YY18106		0.34	0.008	0.04	1.87	8.2	<0.02	<10	130	0.50	0.15	0.31	0.24	32.7	9.0	26
YY18107		0.37	0.002	0.10	1.57	9.4	<0.02	<10	140	0.54	0.16	0.23	0.21	34.1	7.2	23
YY18108		0.33	0.001	0.05	2.00	9.9	<0.02	<10	170	0.63	0.19	0.27	0.27	52.1	12.0	32
YY18109		0.39	0.002	0.07	2.11	14.4	<0.02	<10	120	0.61	0.31	0.25	0.25	45.1	10.6	30
YY18110		0.34	0.003	0.04	1.91	9.2	<0.02	<10	120	0.59	0.20	0.31	0.28	49.5	9.5	27
YY18111		0.33	0.001	0.09	1.84	9.4	<0.02	<10	100	0.59	0.27	0.24	0.23	41.6	9.4	23
YY18112		0.38	0.004	0.12	2.12	11.3	<0.02	<10	150	0.71	0.19	0.24	0.36	49.5	13.3	28
YY18113		0.45	0.003	0.08	2.18	13.1	<0.02	<10	170	0.88	0.41	0.22	0.31	69.1	11.5	28
YY18114		0.35	0.001	0.05	2.05	9.5	<0.02	<10	100	0.51	0.30	0.23	0.18	38.6	8.3	26
YY18115		0.30	0.001	0.16	2.00	12.3	<0.02	<10	230	0.67	0.38	0.21	0.20	45.6	8.9	28
YY18116		0.27	0.002	0.29	2.07	13.7	<0.02	<10	160	0.66	0.38	0.18	0.17	57.9	8.0	27
YY18117		0.44	0.002	0.10	1.76	10.5	<0.02	<10	140	0.49	0.28	0.22	0.19	46.5	9.1	27
YY18118		0.40	0.004	0.05	1.76	11.7	<0.02	<10	100	0.43	0.33	0.13	0.15	31.8	8.1	24
YY18119		0.30	0.002	0.14	1.62	8.3	<0.02	<10	120	0.48	0.17	0.26	0.18	40.7	8.0	22
YY18120		0.35	0.001	0.09	1.25	6.6	<0.02	<10	50	0.26	0.22	0.06	0.08	20.9	3.2	15

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Project: CN

Finalized Date: 3-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198404

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18081		1.56	17.3	2.45	5.35	0.06	0.04	0.01	0.025	0.10	15.6	15.8	0.48	392	0.69	0.01
YY18082		1.13	13.7	1.96	5.31	<0.05	0.02	0.03	0.018	0.05	10.3	9.0	0.20	155	0.77	0.02
YY18083		1.26	19.4	2.49	4.88	0.06	0.08	0.19	0.025	0.08	15.7	15.6	0.45	346	0.76	0.01
YY18084		3.34	21.8	2.80	6.85	0.08	0.03	0.03	0.030	0.22	24.7	23.4	0.53	351	0.75	0.02
YY18085		1.92	20.3	2.85	6.20	0.06	0.03	0.03	0.030	0.12	18.3	18.5	0.51	371	0.81	0.01
YY18086		1.57	13.7	2.56	9.20	<0.05	0.03	0.06	0.025	0.06	12.3	11.1	0.25	175	1.27	0.01
YY18087		3.21	18.1	2.95	8.05	0.08	0.02	0.04	0.042	0.35	19.7	17.2	0.66	259	2.02	0.02
YY18088		1.48	15.7	2.95	5.98	0.06	0.09	0.04	0.030	0.12	15.2	19.3	0.57	391	1.19	0.01
YY18089		1.21	21.4	2.89	5.89	<0.05	0.03	0.03	0.032	0.09	12.0	17.6	0.56	391	0.90	0.01
YY18090		1.37	15.9	3.30	7.30	<0.05	0.04	0.05	0.030	0.07	15.1	19.0	0.44	276	1.18	0.01
YY18091		2.08	16.1	2.78	6.51	0.06	0.02	0.03	0.026	0.19	19.2	18.3	0.58	326	1.02	0.01
YY18092		2.22	17.3	2.20	6.32	0.07	0.02	0.06	0.024	0.18	21.6	13.3	0.49	176	1.04	0.02
YY18093		2.04	16.7	2.32	6.00	0.07	0.02	0.04	0.024	0.20	20.0	13.4	0.49	237	1.11	0.02
YY18094		2.01	16.1	2.68	6.73	0.07	0.03	0.02	0.028	0.21	21.6	17.4	0.58	299	0.99	0.01
YY18095		2.07	16.3	3.03	7.55	0.08	0.02	0.04	0.028	0.20	22.3	17.8	0.60	323	1.10	0.01
YY18096		2.08	18.5	3.47	7.89	0.08	0.03	0.02	0.034	0.19	27.8	20.0	0.65	264	1.01	0.01
YY18097		1.44	15.4	3.11	7.27	<0.05	0.02	0.07	0.026	0.06	13.8	16.5	0.35	277	1.31	0.01
YY18098		3.57	27.7	3.63	8.10	0.07	0.03	0.09	0.064	0.16	18.4	25.5	0.66	506	1.58	0.01
YY18099		4.48	19.7	3.34	9.54	0.07	0.03	0.03	0.061	0.25	18.7	26.0	0.63	355	2.98	0.01
YY18100		1.66	15.4	2.98	9.00	<0.05	<0.02	0.04	0.028	0.04	12.7	12.9	0.23	178	1.53	0.01
YY18101		2.76	22.2	3.22	7.20	0.07	0.03	0.03	0.041	0.18	20.9	23.2	0.59	480	1.04	0.01
YY18102		1.86	21.6	2.77	6.31	0.06	0.03	0.03	0.028	0.08	21.8	16.9	0.48	421	0.94	0.01
YY18103		1.45	22.4	2.97	5.80	0.05	0.04	0.04	0.025	0.06	16.0	16.1	0.52	409	0.91	0.01
YY18104		2.40	22.7	2.86	6.17	0.08	0.07	0.02	0.036	0.17	21.6	19.5	0.54	510	0.78	0.02
YY18105		3.46	23.6	3.32	8.41	0.10	0.05	0.02	0.042	0.42	27.5	26.1	0.69	384	0.68	0.02
YY18106		1.32	19.2	2.80	5.36	0.07	0.05	0.10	0.024	0.12	15.2	15.7	0.53	369	0.84	0.02
YY18107		1.68	17.4	2.50	6.39	0.05	0.03	0.04	0.022	0.13	16.2	14.8	0.41	301	1.15	0.02
YY18108		2.17	19.4	2.98	6.32	0.09	0.07	0.04	0.028	0.14	19.2	17.6	0.73	431	0.85	0.01
YY18109		3.00	17.7	3.44	7.42	0.07	0.04	0.03	0.037	0.25	22.1	23.3	0.82	414	1.03	0.01
YY18110		2.08	20.7	2.80	6.11	0.08	0.04	0.02	0.032	0.21	23.7	20.0	0.65	335	0.90	0.01
YY18111		1.71	18.4	2.65	7.26	0.07	0.05	0.04	0.028	0.16	20.3	17.7	0.54	287	0.85	0.01
YY18112		2.03	21.6	3.00	7.07	0.08	0.05	0.03	0.031	0.15	22.1	18.7	0.61	523	0.91	0.02
YY18113		2.53	20.1	3.28	8.87	0.09	0.03	0.02	0.036	0.20	33.3	22.7	0.64	523	0.97	0.01
YY18114		2.02	15.4	3.23	7.47	0.07	0.06	0.03	0.029	0.15	18.5	18.5	0.56	336	0.83	0.01
YY18115		2.15	19.1	3.14	8.24	0.07	0.03	0.04	0.034	0.13	22.0	19.0	0.56	367	1.20	0.02
YY18116		2.03	19.3	2.85	8.20	0.08	0.02	0.04	0.039	0.14	30.4	16.8	0.51	298	1.22	0.02
YY18117		1.71	16.2	2.84	7.08	0.08	0.03	0.03	0.028	0.17	22.4	16.7	0.56	347	0.94	0.01
YY18118		1.69	14.7	3.33	10.05	<0.05	0.04	0.03	0.029	0.09	14.3	16.4	0.42	320	1.33	0.01
YY18119		1.61	17.4	2.36	5.88	0.06	0.02	0.02	0.027	0.10	18.8	14.1	0.48	315	0.94	0.02
YY18120		1.32	11.0	2.42	8.53	<0.05	0.02	0.03	0.018	0.04	10.2	5.8	0.14	114	1.44	0.02

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 3-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198404

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18081		1.63	24.1	960	10.0	17.0	0.001	0.02	0.34	3.1	<0.2	0.7	17.1	0.01	0.02	6.2
YY18082		1.53	11.6	590	34.8	9.1	<0.001	0.04	0.49	1.5	<0.2	0.6	10.9	0.01	0.03	1.6
YY18083		1.76	24.6	900	9.6	14.6	<0.001	0.02	0.37	3.2	0.2	0.6	17.1	0.01	0.03	6.7
YY18084		1.97	19.8	1100	18.4	36.3	<0.001	0.02	0.30	3.6	<0.2	1.2	21.9	<0.01	0.03	6.9
YY18085		1.77	22.5	790	44.5	20.9	<0.001	0.03	0.50	3.4	<0.2	0.9	16.4	0.01	0.03	4.4
YY18086		2.21	11.9	380	16.4	11.0	<0.001	0.03	0.32	2.2	0.2	1.2	10.0	0.01	0.04	2.5
YY18087		2.49	15.4	890	20.0	45.7	<0.001	0.09	0.36	3.2	<0.2	2.1	24.7	<0.01	0.03	5.8
YY18088		2.10	22.2	750	50.6	20.3	<0.001	0.02	0.35	3.7	<0.2	0.7	15.1	0.01	0.04	7.5
YY18089		1.69	30.2	410	16.3	14.2	<0.001	0.03	0.46	3.2	0.2	0.6	13.8	0.01	0.03	3.2
YY18090		2.25	22.5	370	16.6	15.0	<0.001	0.02	0.39	3.8	<0.2	0.8	15.3	0.01	0.04	5.1
YY18091		1.97	20.6	890	20.9	27.9	<0.001	0.03	0.34	2.9	<0.2	0.9	17.7	<0.01	0.04	4.6
YY18092		1.42	17.1	720	19.4	27.1	<0.001	0.06	0.23	2.0	<0.2	0.9	19.3	<0.01	0.04	0.9
YY18093		1.61	16.2	940	22.6	29.8	0.001	0.08	0.28	2.3	<0.2	0.9	25.0	<0.01	0.05	1.9
YY18094		2.03	18.7	780	18.0	33.0	<0.001	0.04	0.28	3.1	<0.2	1.0	18.4	<0.01	0.03	3.8
YY18095		1.88	19.5	820	19.3	30.6	<0.001	0.04	0.26	2.9	0.2	1.0	17.4	<0.01	0.05	2.7
YY18096		2.03	21.4	730	18.0	29.9	<0.001	0.03	0.29	3.8	0.2	1.2	15.6	<0.01	0.04	4.4
YY18097		1.67	17.5	480	33.9	12.0	<0.001	0.04	0.45	2.3	0.2	0.7	11.6	0.01	0.04	1.5
YY18098		1.93	30.6	790	511	27.3	<0.001	0.04	1.17	4.4	<0.2	1.2	17.1	0.01	0.04	5.2
YY18099		2.55	19.7	680	110.0	39.0	<0.001	0.03	0.88	3.8	<0.2	3.2	14.0	<0.01	0.03	7.9
YY18100		1.62	13.5	520	41.6	8.2	<0.001	0.04	0.49	1.8	0.4	1.0	11.4	<0.01	0.05	0.8
YY18101		1.76	23.3	1010	43.7	29.4	<0.001	0.03	0.65	3.6	<0.2	0.9	16.5	<0.01	0.03	5.2
YY18102		1.51	25.6	780	17.5	16.8	<0.001	0.03	0.51	3.2	0.2	0.8	16.0	<0.01	0.03	3.4
YY18103		1.37	25.2	530	16.9	12.7	<0.001	0.03	0.47	3.3	<0.2	0.6	15.5	0.01	0.04	3.4
YY18104		1.88	27.3	1120	24.1	27.9	<0.001	0.02	0.45	4.2	<0.2	1.1	19.7	0.01	0.03	7.4
YY18105		2.14	20.4	1190	21.3	61.8	0.001	0.02	0.36	5.9	<0.2	1.6	22.5	<0.01	0.03	8.8
YY18106		1.73	25.6	850	9.1	18.8	<0.001	0.03	0.36	3.2	<0.2	0.8	19.0	0.01	0.03	3.9
YY18107		1.54	17.6	660	14.5	21.5	<0.001	0.04	0.37	2.4	<0.2	0.8	18.7	<0.01	0.02	2.0
YY18108		1.84	31.8	740	13.4	28.6	<0.001	0.02	0.36	3.7	0.2	0.8	20.5	<0.01	0.03	5.4
YY18109		2.51	22.9	800	25.2	39.0	<0.001	0.03	0.40	3.4	<0.2	1.0	17.0	<0.01	0.02	8.2
YY18110		2.27	23.1	980	13.7	30.3	<0.001	0.03	0.38	3.4	<0.2	0.9	17.2	<0.01	0.03	8.5
YY18111		3.15	20.0	760	10.4	27.4	<0.001	0.02	0.47	3.9	0.5	1.0	16.5	0.01	0.03	7.7
YY18112		2.52	25.0	780	17.1	24.1	<0.001	0.02	0.47	4.4	0.2	0.9	17.9	0.01	0.03	6.8
YY18113		2.68	21.7	840	26.6	33.6	<0.001	0.02	0.48	4.4	0.4	1.1	17.2	<0.01	0.04	7.8
YY18114		3.18	17.4	800	16.4	24.0	<0.001	0.03	0.43	3.3	0.3	0.9	14.0	<0.01	0.02	9.5
YY18115		2.28	19.7	630	31.5	24.1	<0.001	0.02	0.47	3.7	0.3	1.0	19.1	<0.01	0.04	4.4
YY18116		1.94	17.9	820	47.9	24.3	<0.001	0.06	0.46	3.1	0.4	1.1	17.9	<0.01	0.05	2.2
YY18117		2.08	19.0	750	12.4	25.6	<0.001	0.04	0.43	3.2	0.2	1.0	17.8	<0.01	0.04	3.4
YY18118		3.44	16.3	520	17.9	17.9	<0.001	0.03	0.49	3.0	0.3	1.2	13.5	0.01	0.05	5.1
YY18119		1.54	16.8	820	80.1	18.2	<0.001	0.02	0.47	2.8	<0.2	0.7	17.5	<0.01	0.02	3.5
YY18120		2.42	7.1	330	12.1	10.8	<0.001	0.03	0.41	1.7	0.3	1.0	8.8	<0.01	0.03	2.0

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 3-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198404

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18081		0.102	0.19	0.98	53	0.26	9.54	59	1.7
YY18082		0.075	0.12	0.77	44	0.48	4.92	42	1.1
YY18083		0.093	0.15	1.05	53	0.40	9.90	57	2.8
YY18084		0.118	0.30	2.59	53	0.29	14.35	79	1.2
YY18085		0.101	0.21	1.78	57	0.37	10.20	82	1.2
YY18086		0.094	0.19	0.89	72	0.25	3.77	36	1.2
YY18087		0.120	0.32	2.27	49	0.23	9.85	78	0.8
YY18088		0.105	0.17	2.00	55	0.24	7.77	81	3.0
YY18089		0.088	0.18	0.92	55	0.22	5.26	69	1.2
YY18090		0.107	0.16	1.07	68	0.26	6.77	55	1.9
YY18091		0.107	0.23	1.87	53	0.22	10.05	73	1.1
YY18092		0.077	0.26	2.85	41	0.23	11.70	67	0.8
YY18093		0.085	0.25	2.19	43	0.21	11.40	83	0.9
YY18094		0.109	0.25	1.98	50	0.22	11.00	85	0.9
YY18095		0.101	0.24	2.22	56	0.28	10.35	85	0.9
YY18096		0.101	0.26	2.65	57	0.25	12.95	83	1.1
YY18097		0.086	0.15	0.89	67	0.25	4.78	46	1.0
YY18098		0.119	0.28	1.93	72	0.31	9.11	144	1.5
YY18099		0.134	0.35	2.13	66	0.58	10.15	106	1.5
YY18100		0.072	0.20	0.93	75	0.23	3.76	53	0.8
YY18101		0.114	0.26	1.86	64	0.21	11.25	94	1.4
YY18102		0.091	0.16	1.64	58	0.29	10.65	76	1.3
YY18103		0.080	0.16	1.42	59	0.25	7.64	64	1.7
YY18104		0.120	0.25	1.33	57	0.25	12.75	82	2.3
YY18105		0.171	0.44	2.12	68	0.35	15.50	102	2.3
YY18106		0.115	0.19	0.85	60	0.32	7.52	65	1.6
YY18107		0.091	0.22	1.21	52	0.23	8.67	58	1.2
YY18108		0.116	0.27	1.21	55	0.20	9.80	70	2.4
YY18109		0.131	0.31	1.71	56	0.28	10.55	81	1.6
YY18110		0.121	0.24	1.56	51	0.21	11.15	68	1.6
YY18111		0.118	0.22	1.41	50	0.26	10.85	53	1.8
YY18112		0.109	0.21	1.62	55	0.24	11.10	72	2.5
YY18113		0.114	0.26	2.42	57	0.22	16.45	92	1.3
YY18114		0.118	0.22	1.47	57	0.25	9.42	66	2.7
YY18115		0.108	0.22	2.16	61	0.27	11.20	76	1.3
YY18116		0.087	0.24	2.68	55	0.28	13.90	68	1.1
YY18117		0.102	0.22	1.68	53	0.29	10.90	66	1.1
YY18118		0.134	0.19	0.94	75	0.31	5.92	64	2.0
YY18119		0.087	0.19	1.36	46	0.19	10.30	63	1.0
YY18120		0.093	0.13	0.74	60	0.21	3.58	26	1.3

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

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CERTIFICATE OF ANALYSIS WH19198404

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18121		0.38	0.002	0.12	1.77	9.8	<0.02	<10	140	0.75	0.19	0.33	0.34	70.0	10.3	25
YY18122		0.41	0.001	0.05	2.13	12.5	<0.02	<10	140	0.76	0.22	0.25	0.26	60.5	11.4	28
YY18123		0.38	0.004	0.11	1.59	9.3	<0.02	<10	110	0.47	0.26	0.27	0.13	47.0	7.3	26
YY18124		0.41	0.003	0.08	2.20	11.6	<0.02	<10	170	0.69	0.30	0.18	0.26	56.4	11.8	30
YY18125		0.35	<0.001	0.05	2.18	7.2	<0.02	<10	200	0.67	0.20	0.35	0.23	42.9	12.4	48
YY18126		0.40	0.003	0.04	2.03	14.3	<0.02	<10	110	0.68	0.35	0.21	0.20	56.4	11.3	24
YY18127		0.25	0.001	0.15	1.58	8.9	<0.02	<10	80	0.50	0.32	0.12	0.22	36.3	4.7	20
YY18128		0.37	0.005	0.08	2.10	13.6	<0.02	<10	120	0.80	0.21	0.27	0.28	51.7	13.3	56
YY18129		0.33	0.002	0.07	1.95	12.2	<0.02	<10	90	0.62	0.16	0.21	0.29	39.6	10.5	33
YY18130		0.32	0.002	0.04	2.38	12.0	<0.02	<10	90	0.60	0.17	0.16	0.20	31.8	8.8	33
YY18131		0.29	0.002	0.05	1.80	10.7	<0.02	<10	90	0.52	0.24	0.13	0.14	33.8	8.7	28
YY18132		0.47	0.002	0.13	2.08	13.3	<0.02	<10	90	0.61	0.25	0.15	0.19	33.9	8.7	29
YY18133		0.33	0.002	0.16	2.16	28.7	<0.02	<10	100	1.00	0.29	0.22	0.67	47.0	11.1	29
YY18134		0.42	0.002	0.03	2.05	13.5	<0.02	<10	100	0.82	0.19	0.18	0.16	44.1	11.6	28
YY18135		0.47	0.095	0.09	1.81	11.0	<0.02	<10	130	0.81	0.24	0.25	0.32	62.9	16.2	26
YY18136		0.49	0.004	8.07	0.39	2770	<0.02	<10	70	0.39	1.40	0.24	6.80	26.1	0.5	3
YY18137		0.37	0.004	0.08	2.56	39.1	<0.02	<10	220	1.31	0.27	0.29	0.65	51.7	12.0	28
YY18138		0.36	0.003	0.16	1.70	36.8	<0.02	<10	110	0.66	0.24	0.29	0.34	45.9	9.1	27
YY18139		0.38	0.002	0.23	1.41	53.9	<0.02	<10	100	0.94	0.23	0.24	0.20	56.0	6.0	17
YY18140		0.39	0.005	0.17	1.94	113.0	<0.02	<10	140	0.87	0.29	0.35	0.46	50.9	12.1	29
YY18141		0.36	0.006	0.86	1.75	192.5	<0.02	<10	130	0.74	0.39	0.27	0.40	50.3	8.6	27
YY18142		0.52	0.003	0.34	1.93	66.3	<0.02	<10	140	0.75	0.35	0.26	0.19	51.3	7.8	28
YY18143		0.48	0.009	0.16	1.55	29.3	<0.02	<10	120	1.01	0.26	0.27	0.27	79.4	8.7	23
YY18144		0.42	0.003	0.06	1.74	19.9	<0.02	<10	120	1.41	0.23	0.29	0.34	112.5	9.2	24
YY18145		0.61	0.004	0.11	1.55	15.6	<0.02	<10	110	0.81	0.28	0.31	0.24	53.1	8.0	25
YY18146		0.26	0.003	0.25	1.96	20.5	<0.02	<10	140	0.84	0.31	0.21	0.16	72.5	6.6	29
YY18147		0.28	0.001	0.53	1.06	28.8	<0.02	<10	80	0.37	0.43	0.17	0.94	37.5	4.4	16
YY18148		0.31	0.001	0.59	2.00	62.9	<0.02	<10	150	0.76	0.50	0.15	0.50	49.2	7.8	24
YY18149		0.50	0.003	0.34	1.63	96.9	<0.02	<10	120	1.02	0.35	0.24	0.59	76.3	6.7	24
YY18150		0.29	0.002	0.43	1.73	121.5	<0.02	<10	120	0.80	1.01	0.13	0.67	69.8	5.7	22
YY18151		0.34	0.002	0.14	1.46	32.1	<0.02	<10	150	0.76	0.46	0.26	0.35	76.7	8.6	24
YY18152		0.39	0.001	0.25	1.90	27.1	0.02	<10	160	0.95	0.80	0.19	0.24	71.2	9.2	27
YY18153		0.31	0.002	0.11	1.95	22.4	<0.02	<10	150	0.86	0.90	0.19	0.27	62.3	9.5	28
YY18154		0.44	0.006	0.37	2.04	41.1	<0.02	<10	240	0.97	1.01	0.27	0.24	129.5	9.8	30
YY18155		0.35	0.005	0.40	1.64	68.2	<0.02	<10	170	0.66	0.53	0.37	0.27	58.2	8.0	24
YY18156		0.60	0.003	0.29	1.94	44.4	<0.02	<10	150	0.68	0.38	0.28	0.25	50.9	10.4	27
YY18157		0.45	0.004	0.65	1.91	66.4	<0.02	<10	130	0.72	0.74	0.28	0.38	53.2	9.2	27
YY18158		0.42	0.007	0.29	1.94	27.7	<0.02	<10	140	0.67	0.33	0.28	0.26	45.9	7.6	29
YY18159		0.26	0.002	0.27	1.55	28.1	<0.02	<10	170	0.65	0.25	0.39	0.44	75.2	10.6	24
YY18160		0.40	0.001	0.20	1.53	22.0	<0.02	<10	140	0.62	0.35	0.24	0.27	70.1	8.4	24

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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18121		2.51	20.1	2.94	7.63	0.11	0.03	0.03	0.040	0.20	35.8	20.8	0.59	485	0.89	0.02
YY18122		2.84	19.1	3.15	8.16	0.09	0.05	0.03	0.033	0.18	29.1	22.7	0.62	371	0.98	0.01
YY18123		2.38	15.5	2.53	6.93	0.08	0.03	0.02	0.027	0.19	26.2	16.2	0.53	243	0.79	0.02
YY18124		1.80	21.4	3.26	8.02	0.09	0.04	0.03	0.030	0.13	25.4	18.8	0.54	499	1.02	0.01
YY18125		6.71	19.6	3.18	8.58	0.09	0.06	0.01	0.025	0.50	19.8	27.3	1.08	423	0.53	0.02
YY18126		2.83	20.5	2.98	7.25	0.08	0.03	0.07	0.027	0.16	26.5	20.5	0.62	341	0.86	0.01
YY18127		2.82	19.8	2.25	7.45	0.06	0.03	0.06	0.030	0.10	17.1	10.0	0.33	162	1.18	0.02
YY18128		3.48	23.2	3.32	7.82	0.08	0.04	0.04	0.029	0.24	23.9	24.6	0.78	446	0.89	0.02
YY18129		2.40	21.7	2.82	6.65	0.06	0.03	0.05	0.025	0.12	18.2	17.9	0.54	404	0.86	0.01
YY18130		1.60	19.1	3.35	7.09	0.05	0.04	0.09	0.032	0.09	13.2	20.1	0.50	343	0.97	0.02
YY18131		1.58	19.3	2.94	6.71	0.05	0.02	0.09	0.031	0.08	14.7	17.0	0.43	399	0.96	0.01
YY18132		1.49	19.9	2.81	6.67	0.06	0.02	0.07	0.033	0.07	15.3	16.2	0.44	325	1.19	0.01
YY18133		4.05	19.0	3.00	7.66	0.06	0.02	0.03	0.074	0.10	20.0	20.1	0.54	418	1.20	0.01
YY18134		2.08	20.2	2.81	6.61	0.06	0.03	0.03	0.031	0.10	19.0	16.7	0.50	375	0.92	0.01
YY18135		2.70	24.1	2.73	6.15	0.08	0.03	0.03	0.035	0.08	26.6	17.2	0.43	545	1.41	0.01
YY18136		15.70	43.4	5.28	3.29	<0.05	<0.02	<0.01	0.259	0.33	13.1	2.0	0.07	69	7.18	0.11
YY18137		5.54	22.4	4.26	11.60	0.08	0.04	0.03	0.055	0.40	22.7	28.1	0.82	677	1.12	0.02
YY18138		2.38	26.6	2.80	6.73	0.08	0.03	0.04	0.033	0.13	21.9	15.7	0.48	397	0.87	0.02
YY18139		3.85	22.2	2.17	6.79	0.08	0.02	0.03	0.028	0.09	26.1	11.0	0.31	337	1.09	0.03
YY18140		2.81	31.9	3.14	7.27	0.07	0.04	0.03	0.037	0.17	22.4	19.3	0.61	528	1.09	0.02
YY18141		3.14	28.6	2.82	7.41	0.08	0.03	0.04	0.044	0.15	24.6	15.8	0.49	405	1.08	0.02
YY18142		3.31	14.3	2.71	8.57	0.07	0.02	0.05	0.035	0.11	25.2	19.2	0.56	251	0.71	0.01
YY18143		3.47	15.6	2.85	9.61	0.12	0.02	0.03	0.044	0.15	49.1	19.8	0.46	443	1.02	0.02
YY18144		3.16	18.7	3.10	9.86	0.18	0.04	0.02	0.038	0.22	82.0	21.7	0.56	512	1.16	0.01
YY18145		1.99	14.9	2.69	7.43	0.10	0.03	0.02	0.032	0.12	43.0	17.9	0.52	284	0.93	0.01
YY18146		2.50	15.7	2.48	8.94	0.12	0.02	0.05	0.040	0.10	60.0	18.8	0.51	202	1.15	0.02
YY18147		1.55	11.1	2.18	8.25	0.06	0.02	0.05	0.024	0.13	20.6	8.7	0.25	249	1.27	0.01
YY18148		2.25	17.9	3.55	11.30	0.08	0.03	0.03	0.041	0.16	36.4	17.8	0.43	435	2.48	0.01
YY18149		2.22	17.7	2.69	6.98	0.11	0.02	0.02	0.031	0.15	51.7	18.7	0.52	355	1.40	0.01
YY18150		2.13	28.6	2.54	6.70	0.08	0.02	0.03	0.035	0.08	38.7	12.9	0.36	366	1.89	0.02
YY18151		1.31	22.5	2.61	5.67	0.09	0.05	0.02	0.031	0.08	39.2	15.8	0.43	415	1.36	0.02
YY18152		1.68	19.8	2.87	6.97	0.09	0.03	0.03	0.039	0.09	37.2	20.7	0.41	413	1.85	0.02
YY18153		1.60	20.8	2.99	6.93	0.08	0.03	0.02	0.036	0.09	33.3	20.0	0.45	359	1.52	0.01
YY18154		1.80	26.8	3.10	7.54	0.17	0.05	0.05	0.044	0.10	74.8	19.0	0.45	461	2.13	0.02
YY18155		1.96	17.2	2.39	6.41	0.09	0.02	0.05	0.034	0.11	28.4	17.2	0.51	249	1.06	0.02
YY18156		2.48	15.8	2.61	7.31	0.07	0.02	0.04	0.034	0.12	26.7	19.7	0.59	263	0.70	0.02
YY18157		3.05	14.8	2.54	7.46	0.08	0.02	0.04	0.050	0.18	28.5	20.3	0.66	299	0.62	0.02
YY18158		3.07	12.8	2.40	7.57	0.05	0.02	0.05	0.043	0.13	22.0	20.5	0.63	201	0.64	0.02
YY18159		2.64	13.5	2.38	6.28	0.09	0.02	0.03	0.036	0.14	34.2	16.7	0.57	742	0.70	0.02
YY18160		2.46	12.7	2.29	6.64	0.12	0.02	0.04	0.027	0.13	57.1	15.4	0.49	383	0.90	0.02

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18121		2.34	20.2	1050	68.0	34.3	<0.001	0.02	0.51	4.1	0.2	1.1	20.0	<0.01	0.02	7.3
YY18122		3.00	21.9	830	14.8	31.6	<0.001	0.02	0.53	4.1	0.4	1.1	15.5	<0.01	0.02	9.6
YY18123		2.20	16.6	750	15.0	29.4	<0.001	0.04	0.54	3.8	<0.2	1.0	19.2	<0.01	0.02	4.7
YY18124		2.19	22.7	810	16.6	22.3	<0.001	0.03	0.58	4.3	0.4	0.9	14.3	<0.01	0.03	4.3
YY18125		2.14	34.7	970	12.2	66.6	<0.001	0.02	0.37	4.4	0.2	1.1	21.2	<0.01	0.01	8.6
YY18126		2.04	20.9	730	17.1	24.1	<0.001	0.03	0.52	3.1	0.4	0.8	14.2	<0.01	0.02	5.1
YY18127		1.53	11.6	760	17.4	20.3	<0.001	0.10	0.55	1.1	0.5	0.9	12.9	<0.01	0.03	0.5
YY18128		2.56	32.3	780	16.4	39.3	<0.001	0.04	0.51	3.9	0.4	0.9	18.0	<0.01	0.02	5.9
YY18129		1.82	24.2	640	18.9	20.9	<0.001	0.03	0.53	3.0	0.3	0.7	14.5	<0.01	0.02	2.6
YY18130		2.07	20.9	550	22.2	14.5	<0.001	0.05	0.54	3.3	0.6	0.6	13.8	0.01	0.03	2.3
YY18131		1.55	20.8	460	9.3	15.5	<0.001	0.05	0.56	2.3	0.3	0.7	12.8	<0.01	0.03	1.2
YY18132		1.54	20.9	560	31.2	12.3	<0.001	0.04	0.65	2.8	0.6	0.7	13.5	<0.01	0.03	1.4
YY18133		2.07	22.3	680	202	19.2	<0.001	0.03	0.97	3.5	0.4	1.1	14.2	<0.01	0.02	4.6
YY18134		1.93	23.7	480	19.4	15.0	0.001	0.03	0.68	3.4	0.4	0.9	18.8	0.01	0.02	4.0
YY18135		1.67	22.9	800	36.3	14.5	<0.001	0.03	0.57	3.4	<0.2	0.8	16.0	<0.01	0.04	5.1
YY18136		<0.05	3.2	640	2140	38.4	<0.001	0.77	13.45	0.7	1.5	3.3	70.5	<0.01	<0.01	21.0
YY18137		2.81	23.3	850	108.0	58.8	<0.001	0.03	1.01	4.5	0.3	1.6	18.0	<0.01	0.03	8.2
YY18138		1.61	19.4	820	54.0	20.6	<0.001	0.03	0.87	3.5	0.4	0.8	19.9	<0.01	0.03	4.0
YY18139		0.90	11.3	840	45.3	13.3	<0.001	0.07	1.34	1.4	0.4	0.7	18.8	<0.01	0.03	0.8
YY18140		2.00	23.5	1090	91.2	27.1	<0.001	0.03	1.23	4.2	0.4	0.9	21.6	<0.01	0.02	6.9
YY18141		1.56	17.8	1010	258	24.0	<0.001	0.06	3.81	3.2	0.4	1.0	18.3	<0.01	0.04	3.4
YY18142		1.61	15.8	920	71.5	21.1	<0.001	0.04	1.11	3.7	0.5	1.0	17.9	<0.01	0.02	4.5
YY18143		2.16	14.5	830	51.2	29.5	<0.001	0.03	1.00	4.0	0.3	2.2	18.2	<0.01	0.02	14.5
YY18144		2.53	18.2	950	25.6	32.0	<0.001	0.02	0.77	4.3	0.4	1.9	16.8	<0.01	0.02	16.8
YY18145		1.83	17.0	850	24.6	19.6	<0.001	0.01	0.76	3.5	0.2	1.2	18.2	<0.01	0.03	12.8
YY18146		1.65	15.5	820	36.4	20.0	<0.001	0.04	0.69	3.6	0.3	1.4	16.9	<0.01	0.02	5.1
YY18147		3.10	8.8	450	58.3	23.8	<0.001	0.03	2.17	2.2	0.2	1.6	13.9	<0.01	0.04	4.3
YY18148		4.17	15.2	320	57.7	39.9	<0.001	0.02	2.52	4.0	0.2	2.0	18.1	<0.01	0.05	7.7
YY18149		2.81	15.7	370	133.5	26.0	<0.001	0.01	3.22	4.0	<0.2	1.4	18.4	<0.01	0.03	15.5
YY18150		1.17	12.2	620	91.8	20.6	<0.001	0.04	4.11	2.4	0.2	1.1	14.7	<0.01	0.05	2.6
YY18151		2.23	19.5	680	32.6	15.2	<0.001	0.01	1.34	3.7	0.3	1.1	18.1	<0.01	0.03	11.1
YY18152		2.39	18.8	610	33.4	17.6	<0.001	0.01	1.07	3.7	0.4	1.3	15.3	<0.01	0.05	10.5
YY18153		2.57	20.8	570	24.1	17.7	<0.001	0.02	0.87	3.8	0.3	1.2	14.9	<0.01	0.07	8.2
YY18154		2.85	21.7	800	38.0	20.1	<0.001	0.02	1.06	5.5	0.3	1.5	19.0	<0.01	0.06	11.6
YY18155		1.89	16.4	1070	66.5	19.7	<0.001	0.02	1.33	3.8	0.4	1.3	21.7	<0.01	0.02	7.8
YY18156		1.68	17.0	860	75.4	21.1	<0.001	0.02	0.81	4.0	0.4	1.4	18.2	<0.01	0.02	8.0
YY18157		1.61	15.6	830	130.0	28.7	<0.001	0.02	0.98	3.7	0.4	2.3	17.7	<0.01	0.02	8.4
YY18158		1.39	16.1	840	91.0	22.9	<0.001	0.04	0.77	3.6	0.2	2.3	18.6	<0.01	0.02	5.3
YY18159		1.34	15.0	990	70.1	21.0	<0.001	0.03	0.70	3.8	0.3	2.6	21.9	<0.01	0.02	5.7
YY18160		1.17	14.2	850	44.7	21.2	<0.001	0.04	0.74	3.0	0.3	1.0	18.6	<0.01	0.02	4.7

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 3-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198404

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18121		0.119	0.25	2.97	55	0.28	19.95	99	1.2
YY18122		0.123	0.28	2.16	56	0.25	15.15	67	1.7
YY18123		0.110	0.23	2.20	52	0.27	13.70	61	1.2
YY18124		0.102	0.21	2.23	62	0.26	12.80	67	1.4
YY18125		0.166	0.49	1.49	60	0.21	12.05	72	2.8
YY18126		0.098	0.23	1.52	49	0.19	11.20	74	1.0
YY18127		0.058	0.20	1.60	48	0.16	7.91	49	0.9
YY18128		0.137	0.32	1.62	59	0.27	11.20	78	1.5
YY18129		0.094	0.19	1.09	54	0.21	8.29	80	1.3
YY18130		0.092	0.17	0.77	57	0.20	5.78	79	1.4
YY18131		0.081	0.14	0.90	60	0.22	6.31	68	0.9
YY18132		0.075	0.15	0.87	60	0.25	6.52	76	1.1
YY18133		0.080	0.26	1.14	56	0.31	10.95	203	0.9
YY18134		0.093	0.14	1.45	54	0.21	10.15	62	1.3
YY18135		0.087	0.17	1.80	52	3.35	13.30	70	1.3
YY18136		<0.005	0.47	6.65	3	0.09	3.01	663	0.6
YY18137		0.120	0.50	1.62	62	0.39	12.65	142	1.2
YY18138		0.100	0.19	1.91	57	0.26	12.75	87	1.2
YY18139		0.045	0.16	2.04	40	0.15	16.20	55	0.6
YY18140		0.118	0.26	2.06	62	0.26	12.75	97	1.6
YY18141		0.091	0.24	2.64	56	0.39	13.05	105	1.2
YY18142		0.079	0.26	2.32	52	0.25	13.25	71	0.8
YY18143		0.084	0.25	3.14	49	0.38	23.9	76	0.6
YY18144		0.104	0.26	5.21	54	0.33	33.7	74	1.2
YY18145		0.096	0.18	2.66	54	0.27	17.00	66	1.2
YY18146		0.075	0.21	4.17	55	0.31	21.3	63	0.7
YY18147		0.101	0.19	1.83	58	0.39	10.20	95	0.8
YY18148		0.112	0.27	2.56	74	0.34	20.7	104	1.2
YY18149		0.090	0.21	5.36	48	0.26	23.7	122	0.8
YY18150		0.053	0.23	4.12	46	0.24	15.90	115	<0.5
YY18151		0.085	0.15	2.77	49	0.26	19.10	77	2.1
YY18152		0.076	0.16	2.77	54	0.28	19.35	68	1.1
YY18153		0.086	0.17	2.17	58	0.29	15.95	68	1.2
YY18154		0.085	0.18	5.42	56	0.34	41.8	78	1.4
YY18155		0.080	0.18	3.16	45	0.66	16.70	81	0.8
YY18156		0.091	0.21	1.58	51	0.17	12.25	98	0.9
YY18157		0.103	0.23	1.49	50	0.20	11.30	127	0.9
YY18158		0.083	0.21	1.66	51	0.20	10.50	97	0.7
YY18159		0.090	0.20	1.58	49	0.27	16.70	98	0.8
YY18160		0.078	0.17	2.55	47	0.19	18.45	77	0.7

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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Project: CN

Finalized Date: 3-SEP-2019
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CERTIFICATE OF ANALYSIS WH19198404

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18161		0.57	0.004	0.19	1.33	33.7	<0.02	<10	110	0.54	0.27	0.31	0.60	49.5	7.6	22
YY18162		0.40	0.003	0.18	1.49	30.0	<0.02	<10	90	0.64	0.53	0.29	0.43	49.1	9.0	24
YY18163		0.38	0.002	0.37	1.80	31.5	<0.02	<10	170	0.89	0.55	0.34	0.67	111.0	11.5	27
YY18164		0.35	0.003	0.32	1.81	41.0	<0.02	<10	170	0.89	0.91	0.35	0.63	72.7	9.9	28
YY18165		0.36	0.001	0.15	1.63	23.1	<0.02	<10	140	0.58	0.52	0.32	0.25	41.1	7.1	26
YY18166		0.57	0.004	0.10	1.79	16.2	<0.02	<10	160	0.53	0.24	0.33	0.21	50.0	7.4	26
YY18167		0.40	0.002	0.06	1.76	7.5	<0.02	<10	120	0.57	0.22	0.38	0.15	54.1	9.0	23
YY18168		0.47	0.001	0.11	2.40	9.0	<0.02	<10	140	0.94	0.37	0.39	0.12	56.0	8.6	21
YY18169		0.42	0.001	0.04	1.74	8.8	<0.02	<10	90	0.62	0.12	0.30	0.17	39.4	7.4	21
YY18170		0.38	<0.001	0.05	1.69	13.1	<0.02	<10	100	0.79	0.18	0.20	0.20	48.0	6.6	20
YY18171		0.38	0.003	0.50	1.94	95.5	<0.02	<10	170	0.73	0.31	0.23	0.19	45.8	7.8	31
YY18172		0.58	0.003	0.55	1.83	67.7	<0.02	<10	150	0.55	0.27	0.28	0.34	44.0	7.6	28
YY18173		0.40	0.004	1.21	1.78	155.5	<0.02	<10	180	0.66	0.44	0.29	0.32	37.3	21.0	26
YY18174		0.46	0.003	0.33	1.97	44.7	<0.02	<10	140	0.69	0.29	0.28	0.23	49.7	9.9	28
YY18175		0.42	0.001	0.09	1.38	8.6	<0.02	<10	130	0.41	0.20	0.34	0.17	32.3	5.1	22
YY18176		0.43	0.002	0.09	1.38	21.5	<0.02	<10	130	0.52	0.19	0.31	0.19	39.0	8.1	22
YY18177		0.35	0.002	0.54	1.77	136.0	<0.02	<10	180	0.95	0.37	0.26	0.39	74.5	6.0	26
YY18178		0.34	0.003	0.71	1.76	398	<0.02	<10	120	0.94	0.93	0.17	0.60	49.2	7.7	29
YY18179		0.54	0.004	0.52	1.67	424	<0.02	<10	160	1.16	2.13	0.23	0.69	90.0	9.3	27
YY18180		0.39	0.001	0.20	1.63	81.3	<0.02	<10	110	0.79	0.38	0.17	0.49	43.8	8.5	25
YY18181		0.43	0.001	0.43	1.87	119.0	<0.02	<10	170	0.93	0.39	0.19	0.62	61.1	9.3	30
YY18182		0.35	0.002	0.27	1.73	102.5	0.03	<10	110	0.85	0.38	0.15	0.74	44.5	7.9	27
YY18183		0.44	0.010	1.03	1.77	418	<0.02	<10	100	0.92	2.82	0.21	0.98	49.3	9.7	26
YY18184		0.40	0.004	0.87	1.98	337	<0.02	<10	130	1.28	1.25	0.21	0.82	84.7	7.9	26
YY18185		0.40	0.011	1.40	1.80	346	<0.02	<10	90	0.82	2.26	0.21	0.99	68.3	10.0	26
YY18186		0.42	0.003	0.31	2.05	31.0	<0.02	<10	160	0.78	0.44	0.44	0.32	66.9	15.1	32
YY18187		0.46	0.002	0.17	1.80	13.0	<0.02	<10	140	0.63	0.58	0.39	0.26	68.3	11.8	31
YY18188		0.33	0.006	0.07	1.84	14.5	<0.02	<10	140	0.53	0.24	0.18	0.42	40.1	10.5	27
YY18189		0.33	0.001	0.41	2.36	14.9	<0.02	<10	160	0.59	0.33	0.11	0.30	31.2	8.2	30
YY18190		0.43	0.002	0.07	1.74	29.7	<0.02	<10	90	0.75	0.65	0.28	0.43	44.3	9.7	22
YY18191		0.39	0.002	0.23	1.48	35.6	<0.02	<10	60	0.57	0.78	0.11	0.25	39.1	4.8	20
YY18192		0.37	0.006	0.05	1.96	12.9	<0.02	<10	130	0.50	0.26	0.14	0.23	31.1	6.6	27
YY18193		0.38	0.004	0.26	2.67	26.8	<0.02	<10	180	1.05	0.52	0.22	0.35	76.3	11.7	34
YY18194		0.39	0.001	0.14	2.32	23.6	<0.02	<10	170	0.88	0.35	0.15	0.54	37.9	13.5	29
YY18195		0.43	0.003	0.46	1.83	43.4	<0.02	<10	170	0.73	0.52	0.25	0.46	67.6	9.5	24
YY18196		0.39	0.004	0.93	1.53	150.0	<0.02	<10	100	0.87	0.79	0.24	1.54	78.6	9.9	23
YY18197		0.43	0.001	0.17	1.75	62.4	<0.02	<10	120	0.80	0.89	0.22	0.58	65.9	11.6	26
YY18198		0.42	0.004	0.81	1.59	131.0	<0.02	<10	100	0.86	0.83	0.25	0.89	57.7	12.4	27
YY18199		0.61	0.002	0.25	1.27	73.3	<0.02	<10	90	0.52	0.39	0.32	0.85	50.6	9.0	21
YY18200		0.47	0.002	0.73	1.90	141.5	<0.02	<10	140	0.81	0.43	0.25	0.63	43.4	12.0	27

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North Vancouver BC V7H 0A7
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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18161		2.32	11.8	2.17	5.42	0.09	0.02	0.03	0.028	0.14	45.1	15.4	0.49	383	0.72	0.02
YY18162		2.10	13.3	2.36	6.01	0.08	0.03	0.03	0.025	0.14	25.6	16.9	0.50	694	0.80	0.02
YY18163		2.75	22.1	2.55	7.42	0.13	0.03	0.06	0.049	0.15	55.6	17.2	0.52	1080	1.16	0.02
YY18164		2.84	19.8	2.72	7.39	0.11	0.02	0.04	0.042	0.15	38.0	18.4	0.53	894	1.24	0.02
YY18165		2.97	10.3	2.52	7.16	0.07	0.02	0.04	0.027	0.20	21.3	14.8	0.50	388	0.87	0.01
YY18166		1.66	19.6	2.61	6.36	0.08	0.03	0.04	0.028	0.13	24.3	17.0	0.64	170	0.56	0.02
YY18167		2.73	13.8	2.55	6.89	0.09	0.04	0.02	0.028	0.22	28.1	20.0	0.81	278	0.55	0.02
YY18168		6.93	20.6	3.41	10.10	0.10	0.03	0.02	0.039	0.57	30.5	29.3	1.27	267	0.94	0.02
YY18169		2.65	12.7	2.48	5.41	0.06	0.04	0.17	0.022	0.19	20.3	19.2	0.61	232	0.53	0.02
YY18170		5.35	12.1	3.08	7.70	0.07	0.02	0.02	0.026	0.26	22.1	19.0	0.64	255	0.71	0.01
YY18171		2.97	17.4	2.66	7.76	0.07	0.02	0.06	0.035	0.11	24.5	17.8	0.53	394	1.33	0.02
YY18172		2.33	17.7	2.28	7.00	0.06	0.02	0.05	0.034	0.11	22.5	16.8	0.53	205	1.12	0.02
YY18173		2.26	16.5	2.66	6.65	0.05	0.02	0.05	0.044	0.10	18.4	14.9	0.47	1380	1.87	0.02
YY18174		3.02	14.2	2.56	7.70	0.07	0.02	0.05	0.036	0.13	25.4	19.0	0.60	326	0.90	0.02
YY18175		1.77	8.6	1.75	5.71	0.07	0.02	0.03	0.021	0.12	16.6	14.8	0.53	145	0.40	0.02
YY18176		1.76	9.5	2.21	6.39	0.07	0.02	0.02	0.025	0.11	20.2	15.4	0.49	359	0.73	0.02
YY18177		2.13	33.6	2.54	7.53	0.10	0.02	0.05	0.038	0.11	38.9	14.5	0.42	336	1.76	0.02
YY18178		2.02	40.6	3.03	6.67	0.06	0.02	0.05	0.048	0.12	25.0	17.6	0.47	361	1.53	0.02
YY18179		2.41	44.5	3.11	7.35	0.09	0.02	0.05	0.053	0.18	47.9	20.1	0.53	489	2.28	0.02
YY18180		1.73	14.6	2.65	6.20	<0.05	0.02	0.05	0.037	0.08	22.2	17.4	0.42	463	1.33	0.02
YY18181		2.50	20.8	3.22	8.46	0.07	0.02	0.04	0.040	0.13	31.5	19.0	0.53	536	2.02	0.02
YY18182		1.87	17.5	3.27	7.73	0.05	0.02	0.05	0.044	0.10	21.7	20.4	0.45	376	1.54	0.01
YY18183		1.83	21.7	2.89	6.14	0.06	0.02	0.05	0.050	0.13	24.7	18.1	0.47	462	1.14	0.01
YY18184		3.14	23.9	3.13	7.58	0.09	0.02	0.05	0.068	0.18	48.2	20.5	0.56	471	1.81	0.01
YY18185		2.97	37.1	3.65	6.97	0.07	<0.02	0.07	0.285	0.15	33.4	18.1	0.52	470	1.48	0.01
YY18186		3.62	30.8	3.55	6.26	0.10	0.05	0.08	0.059	0.31	34.9	25.5	0.86	696	1.11	0.02
YY18187		1.76	47.3	2.74	5.70	0.09	0.03	0.03	0.030	0.12	36.7	16.7	0.56	509	0.83	0.02
YY18188		1.40	20.8	2.78	5.66	<0.05	0.02	0.03	0.028	0.07	15.7	15.4	0.49	470	0.95	0.01
YY18189		1.22	17.6	2.88	7.46	<0.05	0.04	0.05	0.030	0.04	14.7	12.5	0.38	281	1.83	0.01
YY18190		1.57	18.7	2.56	5.64	0.05	0.03	0.03	0.037	0.08	24.7	17.4	0.42	414	0.79	0.01
YY18191		1.54	16.8	2.28	7.08	0.05	<0.02	0.04	0.039	0.05	20.6	12.0	0.26	199	1.12	0.01
YY18192		1.30	15.4	3.14	7.45	<0.05	0.02	0.04	0.030	0.05	14.8	13.1	0.33	262	1.17	0.01
YY18193		2.49	24.6	3.38	7.35	0.09	0.06	0.06	0.050	0.12	53.2	21.6	0.65	370	0.94	0.01
YY18194		1.52	21.4	2.96	6.62	<0.05	0.09	0.04	0.038	0.08	17.6	17.8	0.48	418	0.99	0.01
YY18195		2.18	22.4	2.71	6.41	0.08	0.03	0.02	0.048	0.17	36.5	18.0	0.56	411	0.81	0.01
YY18196		3.09	30.1	2.67	5.82	0.08	0.02	0.06	0.091	0.11	39.7	14.2	0.42	425	1.32	0.02
YY18197		3.41	22.8	2.88	6.61	0.09	0.02	0.03	0.058	0.16	34.3	19.1	0.51	591	1.08	0.02
YY18198		3.41	31.1	2.93	6.41	0.07	0.02	0.08	0.182	0.14	29.5	17.3	0.49	486	1.33	0.02
YY18199		2.12	17.7	2.45	5.61	0.08	0.04	0.03	0.061	0.16	23.7	17.3	0.50	345	0.75	0.01
YY18200		2.73	20.4	3.08	7.23	0.06	0.02	0.05	0.050	0.12	22.3	20.6	0.52	544	1.49	0.01

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 3-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198404

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18161		1.33	14.7	890	64.5	20.9	<0.001	0.01	0.73	3.0	<0.2	1.1	18.1	<0.01	0.02	7.2
YY18162		1.67	15.6	910	41.0	23.1	<0.001	0.01	0.65	3.2	0.4	1.4	17.1	<0.01	0.02	8.3
YY18163		1.56	16.5	860	118.5	29.8	<0.001	0.06	0.87	4.4	0.4	2.0	24.1	<0.01	0.03	4.3
YY18164		1.43	18.4	740	71.8	25.8	<0.001	0.04	0.90	3.8	0.2	1.4	25.7	<0.01	0.03	4.4
YY18165		1.81	13.2	930	34.3	32.4	<0.001	0.04	0.66	3.1	<0.2	1.3	20.0	<0.01	0.02	4.3
YY18166		1.95	19.3	830	12.2	22.6	<0.001	0.02	0.57	4.3	0.3	1.0	20.5	<0.01	0.02	7.3
YY18167		2.06	16.1	990	9.9	36.0	<0.001	0.01	0.37	3.7	<0.2	1.4	21.3	<0.01	0.02	13.0
YY18168		3.24	13.9	760	13.6	79.0	<0.001	0.02	0.51	3.8	0.2	3.0	20.6	<0.01	0.02	10.3
YY18169		2.25	15.8	830	7.9	26.6	<0.001	0.01	0.41	2.8	0.3	0.7	16.7	<0.01	0.02	8.6
YY18170		2.12	13.6	730	10.4	34.6	<0.001	0.03	0.49	2.4	0.3	1.3	14.9	<0.01	0.03	4.2
YY18171		1.25	15.9	1190	87.5	22.0	<0.001	0.11	1.03	2.8	0.2	1.1	19.1	<0.01	0.03	1.7
YY18172		1.55	16.3	920	112.0	20.9	<0.001	0.04	2.02	3.7	0.4	1.2	18.4	<0.01	0.02	4.8
YY18173		1.14	14.5	1110	317	18.3	<0.001	0.06	2.66	2.9	0.5	1.2	19.4	<0.01	0.03	2.5
YY18174		1.67	16.3	980	85.8	24.3	<0.001	0.03	1.21	4.1	0.2	1.7	18.2	<0.01	0.01	6.6
YY18175		1.92	13.4	750	21.3	19.7	<0.001	0.01	0.46	3.1	<0.2	1.3	20.0	<0.01	0.01	7.2
YY18176		1.70	13.5	830	23.5	17.7	<0.001	0.02	0.59	3.0	<0.2	1.5	18.3	<0.01	0.02	5.9
YY18177		1.52	15.2	850	63.3	20.2	<0.001	0.07	0.88	2.9	0.3	1.1	23.5	<0.01	0.04	2.3
YY18178		1.54	18.0	600	84.9	22.7	<0.001	0.05	1.31	3.2	0.4	1.2	15.9	<0.01	0.05	5.6
YY18179		1.79	18.5	630	128.5	30.5	<0.001	0.05	1.59	4.2	0.4	1.3	21.5	<0.01	0.04	10.2
YY18180		1.87	16.2	630	61.0	18.6	<0.001	0.04	0.78	3.0	0.4	1.2	14.1	<0.01	0.02	7.9
YY18181		2.24	20.4	690	72.4	28.1	<0.001	0.06	1.01	3.3	0.4	1.6	21.3	<0.01	0.04	4.9
YY18182		2.42	19.0	570	117.5	22.8	<0.001	0.04	1.40	3.2	0.3	1.3	13.4	<0.01	0.05	6.0
YY18183		1.63	19.4	770	336	23.2	<0.001	0.08	3.54	3.2	0.3	1.3	16.8	<0.01	0.04	6.9
YY18184		2.03	16.9	750	202	30.8	<0.001	0.05	2.04	3.6	0.5	1.8	19.8	<0.01	0.04	10.0
YY18185		0.92	17.9	1000	865	22.5	<0.001	0.09	15.15	2.5	0.4	1.0	16.8	<0.01	0.03	3.1
YY18186		0.89	30.4	1030	104.5	45.1	<0.001	0.02	2.12	5.5	0.4	0.6	29.5	<0.01	0.03	6.8
YY18187		1.21	25.3	930	19.3	22.1	<0.001	0.02	0.75	5.0	0.4	0.7	27.0	<0.01	0.03	6.5
YY18188		1.35	25.2	400	31.0	17.2	<0.001	0.03	0.73	2.8	0.3	0.6	15.6	<0.01	0.03	2.2
YY18189		1.73	20.8	350	24.5	10.5	<0.001	0.03	0.87	3.3	0.5	0.7	12.9	0.01	0.04	3.6
YY18190		1.37	19.9	1030	56.9	14.7	<0.001	0.03	2.32	2.7	0.2	0.6	15.4	<0.01	0.03	6.0
YY18191		1.15	12.2	460	53.8	12.6	<0.001	0.03	2.44	2.1	0.4	0.9	10.2	<0.01	0.02	2.8
YY18192		1.55	16.9	400	16.2	11.1	<0.001	0.03	0.70	2.8	0.4	0.8	13.2	0.01	0.03	2.7
YY18193		2.03	25.9	860	36.4	24.1	<0.001	0.03	1.25	4.7	0.5	0.9	17.8	<0.01	0.04	10.6
YY18194		1.77	24.1	590	27.9	19.1	<0.001	0.02	0.93	4.1	0.5	0.7	15.3	<0.01	0.04	7.8
YY18195		1.48	20.3	880	57.4	29.9	<0.001	0.02	1.95	3.6	0.5	0.9	17.7	<0.01	0.02	7.4
YY18196		0.92	18.2	920	193.0	20.4	<0.001	0.06	3.98	2.5	0.3	0.7	18.5	<0.01	0.03	3.7
YY18197		1.36	19.9	940	89.4	27.3	<0.001	0.02	1.74	3.1	0.3	0.8	14.1	<0.01	0.02	4.7
YY18198		1.20	20.5	1060	230	23.5	<0.001	0.04	3.02	3.2	0.5	0.8	16.1	<0.01	0.03	4.5
YY18199		1.36	19.2	1090	94.4	26.3	<0.001	0.01	2.15	3.2	0.5	0.7	17.8	<0.01	0.02	8.8
YY18200		1.47	20.0	1020	179.5	25.6	<0.001	0.03	3.10	3.3	0.4	0.8	17.7	<0.01	0.03	3.6

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 3-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198404

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18161		0.086	0.15	1.55	44	0.30	11.10	124	0.9
YY18162		0.092	0.18	1.68	47	0.21	11.95	108	1.0
YY18163		0.086	0.24	3.40	53	0.22	30.1	113	1.0
YY18164		0.084	0.18	2.62	54	0.19	19.85	133	0.8
YY18165		0.088	0.21	1.47	51	0.18	11.30	81	0.7
YY18166		0.103	0.17	1.70	58	0.26	12.60	60	1.4
YY18167		0.116	0.24	1.82	44	0.21	13.40	58	1.5
YY18168		0.131	0.57	2.29	43	0.24	14.50	60	1.1
YY18169		0.107	0.24	1.06	43	0.28	9.75	49	1.4
YY18170		0.103	0.28	1.63	47	0.19	10.75	48	0.7
YY18171		0.072	0.25	2.75	53	0.37	11.10	75	0.8
YY18172		0.089	0.20	1.75	51	0.43	10.15	87	0.9
YY18173		0.073	0.22	1.71	51	0.34	8.77	89	0.7
YY18174		0.089	0.22	1.66	49	0.32	12.45	78	0.7
YY18175		0.097	0.15	0.85	37	0.26	8.45	55	1.0
YY18176		0.089	0.15	1.04	43	0.35	9.79	64	0.7
YY18177		0.069	0.20	4.39	51	0.26	17.70	91	0.8
YY18178		0.086	0.24	2.73	56	0.32	10.55	105	0.7
YY18179		0.089	0.28	5.16	53	0.23	21.6	122	0.8
YY18180		0.080	0.20	1.98	52	0.26	8.74	83	0.8
YY18181		0.093	0.25	2.92	65	0.28	15.20	115	0.8
YY18182		0.096	0.19	1.70	63	0.32	9.30	112	0.9
YY18183		0.079	0.24	1.85	54	0.44	9.99	113	0.7
YY18184		0.072	0.28	4.37	49	0.30	23.5	200	0.5
YY18185		0.075	0.30	2.13	51	0.32	12.15	242	0.5
YY18186		0.153	0.36	2.49	64	0.26	20.3	114	2.4
YY18187		0.115	0.21	1.75	54	0.21	21.2	75	1.5
YY18188		0.098	0.15	0.72	61	0.31	6.03	77	0.9
YY18189		0.073	0.20	0.84	72	0.29	4.38	61	1.5
YY18190		0.081	0.17	1.57	50	0.29	12.40	79	1.1
YY18191		0.060	0.18	1.94	51	0.25	8.02	78	<0.5
YY18192		0.093	0.14	0.75	72	0.24	5.27	50	0.7
YY18193		0.098	0.27	3.04	56	0.25	14.95	95	2.2
YY18194		0.083	0.20	1.47	56	0.22	6.55	72	3.5
YY18195		0.089	0.26	2.30	45	0.21	14.50	103	0.9
YY18196		0.066	0.25	3.23	44	0.17	20.9	172	0.7
YY18197		0.090	0.24	2.49	49	0.29	18.85	158	0.7
YY18198		0.079	0.24	2.91	49	0.26	18.50	183	0.6
YY18199		0.092	0.20	1.46	45	0.23	14.15	111	1.5
YY18200		0.079	0.24	2.04	54	0.33	12.10	104	0.6

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

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VANCOUVER BC V6B 1L8

Project: CN

Finalized Date: 3-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198404

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

LABORATORY ADDRESSES

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

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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To: **ATAC RESOURCES LTD.**
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Finalized Date: 6-SEP-2019
Account: RCM

CERTIFICATE WH19198419

Project: CN

This report is for 200 Soil samples submitted to our lab in Whitehorse, YT, Canada on 10-AUG-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE	

SAMPLE PREPARATION

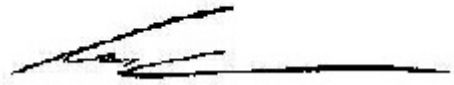
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

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

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

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18201		0.43	0.005	0.51	1.59	101.0	<0.02	<10	110	0.51	0.36	0.32	0.36	37.3	6.9	26
YY18202		0.60	0.003	0.63	1.94	86.5	<0.02	<10	120	0.67	0.32	0.27	0.28	40.0	7.4	29
YY18203		0.52	0.003	0.14	1.36	13.9	<0.02	<10	100	0.66	0.22	0.35	0.36	42.4	8.1	26
YY18204		0.45	0.043	0.34	1.66	37.7	0.02	<10	100	0.76	0.29	0.30	0.17	48.5	11.5	26
YY18205		0.44	0.002	0.07	1.64	9.6	<0.02	<10	120	0.72	0.23	0.30	0.19	42.1	7.6	29
YY18206		0.37	0.033	1.82	1.52	549	0.03	<10	80	0.75	0.55	0.33	0.11	55.7	7.6	22
YY18207		0.47	0.002	0.07	2.05	9.9	<0.02	<10	120	0.97	0.28	0.21	0.17	42.8	8.3	25
YY18208		0.34	<0.001	0.13	2.29	13.2	<0.02	<10	80	0.67	0.27	0.10	0.18	32.8	5.7	26
YY18209		0.36	0.002	0.14	1.90	26.2	<0.02	<10	110	0.83	0.22	0.19	0.23	40.8	9.5	25
YY18210		0.38	0.001	0.07	1.95	13.5	<0.02	<10	90	0.66	0.17	0.16	0.27	33.7	7.3	27
YY18211		0.39	<0.001	0.03	1.60	10.8	<0.02	<10	80	0.51	0.21	0.24	0.21	37.6	5.7	22
YY18212		0.44	0.001	0.05	2.00	28.0	0.02	<10	90	0.82	0.23	0.25	0.20	50.5	10.2	24
YY18213		0.31	0.001	0.05	2.03	14.5	<0.02	<10	110	0.87	0.20	0.22	0.22	46.7	9.1	23
YY18214		0.40	0.002	0.13	1.85	40.0	<0.02	<10	110	0.71	3.26	0.18	0.38	40.4	9.6	32
YY18215		0.34	0.001	0.19	2.29	18.8	<0.02	<10	110	0.94	1.12	0.21	0.30	44.9	9.6	30
YY18216		0.38	0.001	0.31	1.76	33.9	<0.02	<10	120	0.93	2.21	0.22	0.40	51.6	7.4	26
YY18217		0.42	0.002	0.13	1.38	17.2	<0.02	<10	100	0.48	0.96	0.19	0.21	33.5	6.4	27
YY18218		0.39	0.005	2.05	1.71	83.3	<0.02	<10	160	1.15	6.60	0.38	0.66	80.7	8.3	27
YY18219		0.39	0.003	0.63	2.47	38.1	<0.02	<10	200	1.35	1.28	0.21	0.50	72.4	13.0	40
YY18220		0.43	<0.001	0.18	1.57	18.8	<0.02	<10	120	0.71	1.22	0.25	0.30	50.2	8.2	23
YY18221		0.52	0.002	0.34	1.79	47.7	<0.02	<10	150	1.01	1.09	0.24	0.25	79.0	11.3	26
YY18222		0.32	0.004	0.34	1.62	54.9	<0.02	<10	160	0.91	1.33	0.24	0.27	106.5	15.6	22
YY18223		0.44	0.001	0.16	1.74	30.1	<0.02	<10	140	0.81	1.01	0.21	0.24	63.1	7.2	25
YY18224		0.31	0.008	0.34	1.52	39.3	<0.02	<10	190	0.82	0.56	0.24	0.32	126.0	7.1	20
YY18225		0.40	0.009	5.38	1.81	293	<0.02	<10	150	1.03	0.85	0.26	3.99	86.4	6.6	25
YY18226		0.35	<0.001	0.09	2.01	59.4	<0.02	<10	100	1.23	0.50	0.12	0.61	107.5	7.5	23
YY18227		0.35	0.001	0.70	1.41	33.8	<0.02	<10	140	0.75	0.49	0.12	1.47	89.9	5.2	18
YY18228		0.46	0.003	0.27	1.97	95.6	<0.02	<10	110	1.40	0.78	0.22	0.42	185.0	5.7	24
YY18229		0.44	0.002	0.17	1.32	115.0	<0.02	<10	120	0.97	0.75	0.23	1.53	107.5	6.1	21
YY18230		0.53	0.004	0.93	1.44	55.3	<0.02	<10	140	0.67	0.83	0.34	0.92	81.9	6.6	23
YY18231		0.48	0.004	0.72	1.80	115.0	<0.02	<10	160	0.81	0.54	0.26	0.93	61.4	9.7	28
YY18232		0.36	0.004	0.79	1.85	141.5	<0.02	<10	120	1.11	1.37	0.19	1.56	104.5	8.9	29
YY18233		0.35	0.004	0.74	2.41	102.0	<0.02	<10	170	1.14	0.62	0.19	1.49	111.0	10.0	33
YY18234		0.50	0.004	0.84	1.85	131.0	<0.02	<10	130	0.96	0.51	0.20	1.36	70.1	8.5	27
YY18235		0.29	0.005	0.75	1.65	97.7	<0.02	<10	170	0.92	0.57	0.27	0.88	114.5	8.4	26
YY18236		0.42	0.004	0.24	1.45	34.0	<0.02	<10	160	0.64	0.96	0.23	0.70	55.9	7.2	26
YY18237		0.42	0.005	0.49	1.73	39.1	<0.02	<10	160	0.81	1.31	0.23	0.66	74.1	7.3	30
YY18238		0.42	0.001	0.70	1.46	53.5	<0.02	<10	120	1.18	3.91	0.24	0.56	103.0	7.2	21
YY18239		0.33	0.004	3.13	1.95	136.0	<0.02	<10	140	1.12	31.2	0.25	0.45	115.5	7.5	27
YY18240		0.39	0.003	0.78	1.87	58.0	<0.02	<10	140	1.10	2.49	0.21	1.00	69.7	7.6	27

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Project: CN

Finalized Date: 6-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198419

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18201		2.78	16.9	2.46	6.90	0.07	0.03	0.04	0.031	0.20	18.7	17.5	0.60	296	1.12	0.01
YY18202		3.76	17.8	2.75	7.11	0.08	0.02	0.07	0.037	0.15	20.4	17.5	0.62	240	1.12	0.01
YY18203		1.61	15.7	2.47	5.77	0.08	0.02	0.02	0.026	0.10	20.7	14.1	0.49	342	0.84	0.02
YY18204		2.86	15.3	2.65	6.73	0.09	0.03	0.07	0.034	0.12	29.4	15.0	0.51	255	1.96	0.02
YY18205		3.06	15.2	2.79	7.42	0.08	0.02	0.04	0.022	0.19	21.5	16.5	0.60	301	0.88	0.01
YY18206		3.00	18.6	2.58	6.46	0.09	0.02	0.04	0.037	0.18	28.5	15.1	0.57	226	1.01	0.01
YY18207		2.82	14.9	2.87	7.37	0.06	0.02	0.04	0.024	0.14	21.2	21.5	0.59	311	0.78	0.01
YY18208		2.40	13.5	3.50	9.30	<0.05	0.03	0.06	0.032	0.07	15.5	23.4	0.38	219	1.15	0.01
YY18209		2.06	18.1	2.80	6.62	0.07	0.04	0.03	0.024	0.12	19.8	17.4	0.57	369	1.06	0.01
YY18210		1.54	15.7	2.76	6.79	0.05	0.03	0.05	0.029	0.09	16.7	16.2	0.43	285	0.88	0.01
YY18211		2.66	10.6	2.51	6.68	0.07	0.03	0.04	0.021	0.19	18.3	16.2	0.52	259	0.65	0.01
YY18212		2.69	14.5	2.78	6.68	0.09	0.04	0.03	0.022	0.27	25.0	19.6	0.64	313	0.65	0.01
YY18213		3.45	14.0	3.35	8.85	0.10	0.03	0.05	0.037	0.27	21.8	27.8	0.74	337	0.80	0.01
YY18214		2.39	19.6	3.46	9.46	0.07	0.02	0.02	0.063	0.16	17.9	21.5	0.72	582	1.42	0.01
YY18215		1.91	21.7	2.90	7.70	0.09	0.03	0.05	0.043	0.11	30.1	19.9	0.59	334	0.96	0.01
YY18216		2.01	22.6	2.75	6.91	0.08	0.02	0.04	0.039	0.11	27.4	16.3	0.50	262	0.88	0.02
YY18217		1.42	12.4	2.59	7.27	0.06	0.02	0.03	0.028	0.10	17.7	12.7	0.44	256	1.05	0.01
YY18218		2.67	26.2	2.75	7.37	0.14	0.03	0.05	0.041	0.14	45.6	17.3	0.59	397	0.98	0.02
YY18219		2.47	25.4	3.64	10.30	0.10	0.03	0.06	0.048	0.15	36.1	24.4	0.66	719	1.18	0.02
YY18220		1.99	16.1	2.31	6.53	0.07	0.02	0.03	0.030	0.10	24.9	17.4	0.50	409	0.59	0.02
YY18221		2.10	19.1	2.96	9.45	0.10	0.02	0.03	0.047	0.12	41.4	17.4	0.44	768	1.57	0.01
YY18222		1.93	15.8	2.76	9.31	0.11	0.02	0.05	0.049	0.13	47.1	15.2	0.42	2330	1.69	0.02
YY18223		1.93	15.6	2.54	8.27	0.09	0.02	0.03	0.047	0.15	35.8	17.1	0.45	364	1.18	0.02
YY18224		1.50	16.1	2.11	6.66	0.12	0.02	0.05	0.038	0.08	45.6	12.2	0.35	522	1.12	0.02
YY18225		2.06	42.5	2.84	7.60	0.12	0.02	0.03	0.080	0.13	44.7	19.7	0.48	349	1.82	0.01
YY18226		2.42	14.5	2.99	9.53	0.13	0.03	0.05	0.078	0.17	53.4	19.6	0.35	626	1.62	0.01
YY18227		1.34	14.8	1.90	6.71	0.14	0.03	0.03	0.026	0.09	71.6	12.2	0.29	232	1.20	0.02
YY18228		3.06	14.5	3.08	12.00	0.35	0.05	0.03	0.109	0.24	150.5	19.4	0.42	236	2.19	0.01
YY18229		2.26	15.2	2.64	8.33	0.14	0.02	0.02	0.066	0.14	61.9	13.1	0.33	505	1.59	0.01
YY18230		1.84	23.3	2.40	7.11	0.14	0.04	0.04	0.045	0.13	44.1	14.5	0.45	296	0.95	0.02
YY18231		1.90	17.6	2.96	8.49	0.08	0.02	0.04	0.062	0.13	33.1	17.7	0.45	717	1.54	0.02
YY18232		2.35	16.5	3.11	8.03	0.13	0.02	0.05	0.064	0.13	55.6	17.9	0.44	653	2.33	0.01
YY18233		1.86	21.5	3.27	8.38	0.10	0.02	0.07	0.057	0.12	42.0	20.8	0.49	726	1.66	0.02
YY18234		1.96	16.8	2.84	8.10	0.10	0.02	0.05	0.058	0.12	39.3	19.0	0.43	677	1.72	0.02
YY18235		2.18	18.1	2.54	7.96	0.16	0.03	0.04	0.058	0.12	61.8	15.4	0.41	721	1.83	0.02
YY18236		1.42	13.3	2.51	7.51	0.07	0.02	0.03	0.041	0.10	30.3	14.1	0.41	445	1.02	0.02
YY18237		1.82	14.4	2.69	8.60	0.10	0.02	0.05	0.042	0.11	42.2	15.8	0.44	466	1.23	0.01
YY18238		2.75	11.2	2.55	7.72	0.18	0.02	0.03	0.057	0.12	72.4	15.1	0.35	499	1.18	0.02
YY18239		2.15	20.0	3.05	9.37	0.16	0.02	0.05	0.068	0.13	69.9	17.7	0.44	408	1.77	0.02
YY18240		1.82	16.5	2.76	8.13	0.09	0.02	0.06	0.049	0.11	42.3	18.5	0.42	463	1.23	0.01

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Project: CN

Finalized Date: 6-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198419

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18201		1.71	15.3	990	76.5	31.9	<0.001	0.05	2.22	3.2	<0.2	1.0	18.6	<0.01	0.02	4.3
YY18202		1.29	15.4	880	158.0	24.5	<0.001	0.04	1.53	3.4	0.4	1.0	16.9	<0.01	0.01	3.3
YY18203		1.35	17.0	1000	53.5	14.5	<0.001	0.03	0.61	3.0	0.2	0.8	20.5	<0.01	0.02	5.2
YY18204		1.23	15.5	990	59.9	18.7	<0.001	0.05	0.73	3.2	0.3	1.3	22.1	<0.01	0.07	4.6
YY18205		1.61	15.1	920	14.0	26.1	<0.001	0.04	0.51	3.2	<0.2	1.6	19.5	<0.01	0.02	5.0
YY18206		1.29	13.2	1100	470	25.5	<0.001	0.06	1.29	2.8	0.3	1.8	19.5	<0.01	0.03	6.0
YY18207		1.91	15.9	700	13.8	28.0	<0.001	0.03	0.47	3.2	0.3	1.1	13.8	<0.01	0.02	5.1
YY18208		2.42	13.4	520	15.5	14.9	<0.001	0.04	0.57	3.0	0.4	1.5	10.4	<0.01	0.03	3.9
YY18209		1.59	19.3	600	36.6	21.2	<0.001	0.03	0.74	3.4	0.2	1.1	13.9	<0.01	0.03	5.7
YY18210		1.73	16.2	580	23.2	15.9	<0.001	0.05	0.54	2.7	0.2	0.8	11.7	<0.01	0.03	2.9
YY18211		1.99	13.2	750	21.6	23.8	<0.001	0.03	0.42	2.4	<0.2	0.8	13.9	<0.01	0.02	4.7
YY18212		2.36	16.8	860	50.9	35.4	<0.001	0.03	0.52	3.2	0.2	0.8	13.9	<0.01	0.03	9.8
YY18213		2.55	17.1	810	13.8	42.2	<0.001	0.04	0.48	3.2	0.3	1.4	16.3	<0.01	0.03	5.2
YY18214		2.19	17.4	480	93.6	26.0	<0.001	0.03	1.12	4.2	<0.2	6.0	15.3	<0.01	0.07	5.6
YY18215		1.67	19.7	690	44.3	19.5	<0.001	0.03	0.98	3.9	0.3	3.6	14.6	<0.01	0.08	5.6
YY18216		1.28	15.1	620	65.7	19.3	<0.001	0.05	1.44	2.8	0.3	2.8	19.1	<0.01	0.08	2.6
YY18217		1.48	13.7	520	22.0	15.4	<0.001	0.04	0.83	2.8	0.3	2.4	17.1	<0.01	0.04	2.8
YY18218		1.45	18.3	840	201	22.9	<0.001	0.04	1.03	4.3	0.3	2.7	28.6	<0.01	0.09	5.6
YY18219		1.67	24.9	860	79.9	27.3	<0.001	0.06	1.10	4.7	0.4	3.0	21.4	<0.01	0.05	4.0
YY18220		1.56	17.1	710	35.9	18.5	<0.001	0.02	0.83	3.1	0.4	2.4	17.0	<0.01	0.03	6.0
YY18221		2.28	15.1	730	46.2	22.4	<0.001	0.04	1.58	3.8	0.5	3.6	21.5	<0.01	0.04	4.8
YY18222		2.83	13.2	660	68.6	24.4	0.001	0.05	1.59	4.3	0.3	3.8	20.1	<0.01	0.02	5.7
YY18223		3.35	15.9	580	24.4	29.4	<0.001	0.02	1.08	4.2	0.3	3.1	17.3	<0.01	0.01	7.8
YY18224		1.38	12.0	840	40.2	13.2	0.001	0.06	1.24	2.6	0.6	1.7	21.4	<0.01	0.03	1.6
YY18225		2.63	19.1	520	1390	26.4	<0.001	0.03	13.75	4.3	0.4	1.4	21.9	<0.01	0.03	9.5
YY18226		5.25	16.4	380	34.9	36.7	<0.001	0.02	1.36	4.2	0.3	8.5	11.7	<0.01	0.03	13.9
YY18227		1.82	11.5	310	114.0	18.7	0.001	0.02	1.64	2.5	0.4	1.0	15.2	<0.01	0.03	2.7
YY18228		6.37	14.2	650	47.3	48.6	0.001	0.02	1.98	6.7	0.7	12.0	17.5	0.01	0.02	19.2
YY18229		3.18	12.8	500	96.3	29.6	<0.001	0.03	7.34	3.7	0.3	4.9	19.9	<0.01	0.02	8.8
YY18230		3.99	15.4	670	293	23.2	<0.001	0.01	3.79	4.5	<0.2	2.1	23.6	<0.01	0.01	14.0
YY18231		3.48	18.2	580	260	26.2	<0.001	0.03	3.70	4.5	0.2	2.9	20.3	<0.01	0.03	8.0
YY18232		2.83	18.3	490	172.0	25.3	<0.001	0.03	3.65	4.5	0.7	1.9	17.7	<0.01	0.03	8.2
YY18233		2.77	26.5	550	103.0	23.7	<0.001	0.03	2.27	4.7	<0.2	1.7	17.4	<0.01	0.02	8.2
YY18234		3.06	19.1	570	167.0	25.0	<0.001	0.03	3.33	3.8	0.3	1.8	17.7	<0.01	0.02	7.0
YY18235		3.01	16.6	690	154.0	25.4	0.001	0.04	3.32	4.6	0.6	2.0	23.0	<0.01	0.02	6.2
YY18236		2.30	16.7	580	60.8	19.2	<0.001	0.03	1.47	3.1	0.4	2.2	19.7	<0.01	0.02	4.2
YY18237		2.47	17.3	630	70.1	22.7	<0.001	0.04	2.13	3.7	0.3	2.7	20.5	<0.01	0.04	4.0
YY18238		3.47	14.6	680	122.0	23.7	<0.001	0.02	2.19	3.5	<0.2	3.0	18.2	<0.01	0.08	10.2
YY18239		2.92	17.2	680	211	24.8	<0.001	0.04	3.70	4.4	0.4	3.1	20.8	<0.01	0.09	7.0
YY18240		2.66	19.3	460	82.8	22.3	<0.001	0.02	2.43	3.7	<0.2	2.8	17.4	<0.01	0.05	4.9

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 6-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198419

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18201		0.096	0.27	1.47	49	0.30	10.20	116	1.0
YY18202		0.078	0.22	2.29	51	0.62	11.80	109	0.6
YY18203		0.092	0.13	1.10	55	0.41	10.85	77	1.0
YY18204		0.077	0.18	2.10	53	6.61	13.90	74	0.8
YY18205		0.105	0.22	1.43	61	0.51	11.70	56	1.0
YY18206		0.076	0.23	1.74	45	0.28	15.90	52	0.5
YY18207		0.098	0.21	1.18	55	0.20	10.95	56	1.0
YY18208		0.085	0.16	0.73	65	0.24	5.68	43	1.0
YY18209		0.095	0.22	1.16	55	0.25	9.75	70	1.3
YY18210		0.087	0.16	0.90	57	0.21	6.75	54	1.1
YY18211		0.098	0.21	0.79	46	0.17	7.98	58	1.0
YY18212		0.104	0.32	1.54	43	0.20	12.50	67	1.5
YY18213		0.113	0.33	1.47	51	0.27	11.55	56	1.1
YY18214		0.140	0.22	1.60	71	0.31	7.67	140	1.3
YY18215		0.092	0.18	2.20	56	0.22	13.15	101	1.2
YY18216		0.079	0.21	2.13	51	0.20	12.50	91	0.6
YY18217		0.094	0.15	1.22	61	0.23	8.10	66	1.0
YY18218		0.091	0.23	2.81	57	0.26	22.3	103	1.1
YY18219		0.093	0.25	3.61	73	0.29	16.80	106	1.1
YY18220		0.086	0.19	1.61	45	0.19	12.85	77	0.8
YY18221		0.070	0.26	3.53	49	0.21	24.5	82	0.6
YY18222		0.069	0.36	4.01	42	0.21	27.6	75	0.5
YY18223		0.087	0.26	3.17	45	0.34	18.20	84	0.9
YY18224		0.053	0.21	3.97	40	0.29	31.4	62	0.6
YY18225		0.077	0.24	4.81	50	0.30	27.7	269	0.9
YY18226		0.086	0.31	4.19	47	0.27	25.5	129	1.0
YY18227		0.068	0.16	3.67	41	0.23	35.9	90	0.7
YY18228		0.095	0.38	11.45	45	0.34	86.4	172	1.5
YY18229		0.077	0.23	4.51	42	0.33	35.0	250	0.7
YY18230		0.093	0.21	4.17	44	0.27	26.3	153	2.2
YY18231		0.097	0.22	2.91	55	0.33	17.05	123	1.1
YY18232		0.082	0.25	4.37	53	0.22	29.0	198	1.0
YY18233		0.086	0.22	3.14	59	0.26	20.7	159	1.0
YY18234		0.089	0.23	2.96	52	0.23	20.2	167	0.9
YY18235		0.083	0.22	4.65	50	0.30	37.4	153	0.9
YY18236		0.082	0.17	2.00	53	0.28	18.10	103	0.9
YY18237		0.084	0.19	3.29	58	0.29	25.2	107	0.9
YY18238		0.078	0.19	3.85	45	0.30	35.9	100	0.7
YY18239		0.083	0.24	5.10	56	0.36	41.6	106	1.0
YY18240		0.090	0.20	2.46	54	0.30	19.95	132	0.8

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Project: CN

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CERTIFICATE OF ANALYSIS WH19198419

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18241		0.47	0.009	1.39	1.80	119.0	<0.02	<10	130	1.13	3.45	0.26	1.46	85.4	7.4	25
YY18242		0.39	0.005	0.36	1.71	99.3	<0.02	<10	110	1.12	1.55	0.21	0.99	109.5	7.4	22
YY18243		0.44	0.006	0.07	1.52	12.3	<0.02	<10	170	1.13	0.59	0.39	0.39	119.5	7.9	27
YY18244		0.39	<0.001	0.06	2.20	13.7	<0.02	<10	130	1.03	0.53	0.20	0.25	59.9	9.9	28
YY18245		0.34	0.002	0.40	1.96	103.0	<0.02	<10	120	0.92	0.70	0.15	0.81	53.4	7.6	22
YY18246		0.31	0.001	0.09	2.46	25.3	<0.02	<10	110	0.95	1.13	0.11	0.36	50.2	7.0	26
YY18247		0.38	0.002	0.31	2.37	57.4	<0.02	<10	160	1.33	0.66	0.20	0.50	75.4	7.9	27
YY18248		0.34	0.003	0.11	2.36	63.9	<0.02	<10	140	1.06	0.54	0.17	0.78	76.6	8.7	30
YY18249		0.38	0.003	0.14	2.06	78.2	<0.02	<10	120	1.30	0.77	0.12	0.77	97.3	5.7	23
YY18250		0.32	0.002	0.14	2.14	52.5	<0.02	<10	130	0.86	0.27	0.19	0.96	60.2	8.9	29
YY18251		0.47	0.004	0.18	1.89	245	<0.02	<10	130	1.12	1.29	0.15	1.06	81.9	7.1	26
YY18252		0.46	0.004	0.18	1.76	42.1	<0.02	<10	130	1.04	0.49	0.25	0.54	93.6	7.6	26
YY18253		0.41	0.003	0.10	1.89	11.1	<0.02	<10	140	0.67	0.28	0.38	0.20	50.4	9.1	33
YY18254		0.28	0.002	1.08	1.09	17.1	<0.02	<10	50	0.23	0.70	0.12	0.18	15.80	3.1	14
YY18255		0.48	0.004	0.91	1.17	14.1	<0.02	<10	110	0.21	2.81	0.07	0.12	63.8	3.4	16
YY18256		0.49	0.001	1.43	1.78	223	<0.02	<10	110	0.40	6.63	0.03	0.06	174.0	1.2	5
YY18257		0.40	0.002	0.68	1.41	214	<0.02	<10	80	0.34	10.85	0.08	0.11	77.5	4.5	15
YY18258		0.52	0.003	1.45	0.95	458	<0.02	<10	90	0.25	28.3	0.05	0.09	97.4	1.9	9
YY18259		0.46	0.003	2.09	1.71	326	<0.02	<10	100	0.38	18.90	0.10	0.13	98.7	3.2	16
YY18260		0.39	0.002	0.49	1.59	50.3	<0.02	<10	100	0.34	11.20	0.14	0.17	49.3	6.5	20
YY18261		0.50	0.005	2.93	1.02	461	<0.02	<10	190	0.34	85.9	0.06	0.12	58.8	2.8	12
YY18262		0.59	0.003	0.69	1.81	49.1	<0.02	<10	180	0.49	11.90	0.22	0.22	72.2	4.4	23
YY18263		0.52	0.004	0.75	1.60	92.1	<0.02	<10	120	0.40	9.32	0.25	0.14	62.7	4.6	21
YY18264		0.11	0.024	1.44	1.91	86.6	<0.02	<10	150	0.36	5.84	0.16	0.30	47.9	4.4	26
YY18265		0.36	0.001	0.53	1.40	9.1	<0.02	<10	140	0.39	0.50	0.14	0.33	40.3	4.1	20
YY18266		0.34	0.004	0.27	1.75	19.2	<0.02	<10	70	0.44	0.48	0.10	0.26	45.1	4.4	20
YY18267		0.41	0.001	0.42	2.14	12.5	<0.02	<10	110	0.70	0.41	0.15	0.25	68.2	6.3	27
YY18268		0.36	0.003	0.49	2.04	26.8	<0.02	<10	160	0.39	20.1	0.17	0.18	56.7	7.2	27
YY18269		0.50	0.003	0.63	1.70	56.8	<0.02	<10	90	0.31	14.75	0.08	0.10	84.0	3.5	15
YY18270		0.43	0.006	1.62	1.96	126.0	<0.02	<10	100	0.56	12.20	0.11	0.08	99.9	4.4	16
YY18271		0.36	0.003	1.37	1.96	287	<0.02	<10	110	0.54	10.90	0.10	0.18	82.2	5.4	20
YY18272		0.41	0.003	0.89	1.85	64.5	<0.02	<10	90	0.42	4.52	0.11	0.18	49.9	6.1	22
YY18273		0.50	0.007	0.84	1.85	128.0	<0.02	<10	90	0.33	6.94	0.13	0.16	44.9	5.8	22
YY18274		0.40	0.004	0.78	1.77	70.1	<0.02	<10	90	0.32	5.74	0.15	0.12	61.2	4.2	21
YY18275		0.47	0.003	0.94	1.59	108.5	<0.02	<10	100	0.36	5.34	0.15	0.14	67.4	3.9	19
YY18276		0.41	0.001	0.74	1.35	63.5	<0.02	<10	90	0.27	4.43	0.07	0.12	46.7	4.3	16
YY18277		0.48	0.007	1.69	0.59	89.1	<0.02	<10	50	0.12	10.10	0.03	0.05	52.3	0.8	5
YY18278		0.33	0.002	1.29	3.35	349	<0.02	<10	180	1.46	6.09	0.39	1.76	32.4	13.0	87
YY18279		0.44	0.002	1.40	3.45	252	<0.02	<10	190	1.54	6.95	0.38	1.39	34.4	12.4	75
YY18280		0.36	0.002	0.38	3.86	163.0	<0.02	<10	290	1.99	3.72	0.76	0.96	44.4	18.4	81

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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18241		2.75	22.8	2.73	9.04	0.13	0.03	0.05	0.088	0.16	55.3	18.1	0.45	443	1.38	0.02
YY18242		2.58	15.5	2.88	8.78	0.14	0.03	0.04	0.077	0.13	54.9	20.1	0.35	518	1.52	0.01
YY18243		2.05	20.9	2.82	8.16	0.18	0.05	0.03	0.057	0.13	68.1	18.3	0.47	403	1.34	0.02
YY18244		1.96	20.2	3.07	8.30	0.08	0.04	0.05	0.055	0.11	27.0	19.2	0.44	328	1.24	0.02
YY18245		2.41	16.3	2.88	9.20	0.08	0.02	0.05	0.076	0.13	31.2	19.3	0.34	350	1.22	0.01
YY18246		1.97	17.9	3.36	10.60	0.07	0.02	0.07	0.067	0.11	22.1	20.6	0.30	253	1.51	0.01
YY18247		3.11	19.8	3.08	10.65	0.16	0.04	0.05	0.072	0.20	62.1	23.5	0.41	279	1.03	0.01
YY18248		2.56	18.0	3.16	9.97	0.13	0.06	0.05	0.074	0.16	48.4	21.2	0.48	412	1.31	0.01
YY18249		3.23	17.8	2.83	10.40	0.16	0.03	0.04	0.099	0.18	81.5	18.4	0.35	393	1.46	0.01
YY18250		1.79	14.8	2.90	7.93	0.10	0.08	0.03	0.050	0.12	34.2	17.0	0.49	378	1.27	0.02
YY18251		2.48	31.1	3.24	9.02	0.09	0.02	0.03	0.085	0.15	42.4	16.5	0.39	575	2.20	0.01
YY18252		1.62	25.3	2.84	8.25	0.11	0.02	0.03	0.057	0.11	46.7	16.7	0.45	339	1.38	0.01
YY18253		2.77	20.8	2.92	7.62	0.10	0.04	0.02	0.038	0.22	26.6	21.2	0.67	255	0.72	0.02
YY18254		0.98	12.7	1.66	5.39	<0.05	<0.02	0.04	0.029	0.04	7.6	6.1	0.17	122	0.69	0.02
YY18255		0.82	80.0	2.83	4.36	0.05	<0.02	0.06	0.038	0.26	40.5	6.8	0.29	188	1.96	0.01
YY18256		5.53	213	3.15	5.75	0.08	0.06	0.02	0.057	0.47	129.5	13.5	0.79	200	1.63	<0.01
YY18257		1.51	93.4	2.61	4.85	0.06	0.02	0.05	0.065	0.15	50.1	9.0	0.33	206	2.27	0.01
YY18258		2.40	112.0	2.45	3.80	0.08	0.05	0.03	0.059	0.21	63.1	6.2	0.26	122	3.28	0.01
YY18259		4.22	101.5	2.88	6.31	0.08	0.03	0.08	0.053	0.26	63.3	9.2	0.54	284	3.80	<0.01
YY18260		2.25	64.0	2.77	5.50	0.05	0.03	0.04	0.032	0.13	28.2	9.0	0.38	327	2.10	0.01
YY18261		3.40	137.0	4.32	4.92	0.05	0.07	0.03	0.077	0.40	35.6	5.5	0.23	204	7.60	0.02
YY18262		3.55	103.0	2.70	5.75	0.09	0.08	0.03	0.035	0.13	39.0	11.7	0.61	156	1.43	0.01
YY18263		3.34	75.2	2.85	5.10	0.07	0.05	0.09	0.029	0.15	34.5	10.3	0.59	206	1.52	0.01
YY18264		4.26	80.5	2.90	6.39	<0.05	0.04	0.18	0.040	0.12	27.9	11.0	0.51	147	3.07	0.01
YY18265		1.21	19.5	1.85	5.10	<0.05	0.02	0.05	0.018	0.07	22.5	6.4	0.38	199	1.44	0.01
YY18266		1.71	12.5	3.06	6.97	<0.05	0.03	0.07	0.026	0.08	21.7	11.3	0.48	291	2.57	<0.01
YY18267		1.66	17.4	2.85	6.79	0.08	0.04	0.08	0.027	0.08	43.4	11.8	0.48	346	2.06	<0.01
YY18268		1.29	61.4	3.18	5.81	0.05	0.04	0.04	0.038	0.15	33.2	13.0	0.52	275	1.49	<0.01
YY18269		1.66	86.2	2.71	5.70	0.07	0.06	0.04	0.036	0.29	50.1	16.3	0.76	332	2.09	<0.01
YY18270		4.11	149.0	2.81	6.13	0.08	0.10	0.03	0.054	0.49	63.2	21.5	1.08	384	2.26	<0.01
YY18271		1.64	98.5	2.84	5.19	0.06	0.07	0.04	0.082	0.17	52.4	14.9	0.45	198	1.49	0.01
YY18272		1.47	65.9	2.67	5.03	0.05	0.15	0.05	0.045	0.14	30.5	13.8	0.53	236	1.65	<0.01
YY18273		1.51	77.3	2.81	5.58	0.05	0.02	0.06	0.046	0.12	26.2	13.1	0.56	255	2.03	<0.01
YY18274		1.32	88.8	2.50	5.10	0.06	0.04	0.04	0.039	0.15	35.0	12.7	0.57	210	1.64	<0.01
YY18275		1.24	92.3	2.40	5.35	0.07	<0.02	0.03	0.043	0.18	37.6	12.7	0.64	229	1.73	<0.01
YY18276		1.63	44.4	3.36	5.26	0.06	0.06	0.02	0.041	0.31	28.1	13.3	0.47	283	6.21	<0.01
YY18277		0.99	75.3	2.11	3.73	<0.05	0.03	0.08	0.099	0.21	30.3	3.9	0.16	54	6.98	0.01
YY18278		4.36	125.0	3.83	10.55	0.05	<0.02	0.04	0.161	0.18	17.2	26.5	1.09	514	4.78	<0.01
YY18279		4.24	124.5	3.51	10.00	0.06	0.02	0.04	0.051	0.16	18.5	25.4	1.10	466	5.43	0.01
YY18280		4.85	91.9	3.38	10.80	0.09	0.05	0.01	0.041	0.34	23.7	29.6	1.54	804	6.09	0.01

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18241		4.00	16.2	510	126.5	29.7	<0.001	0.03	5.17	4.9	<0.2	5.2	22.8	<0.01	0.03	12.3
YY18242		4.21	15.5	530	221	29.2	<0.001	0.02	4.72	4.0	0.3	4.4	15.6	<0.01	0.02	12.7
YY18243		3.10	20.5	770	17.3	22.5	0.001	0.01	0.90	5.5	0.4	3.8	26.3	<0.01	0.01	15.7
YY18244		4.98	23.0	420	16.1	23.4	<0.001	0.02	0.71	4.6	0.2	3.9	16.6	0.01	0.03	11.6
YY18245		5.04	17.7	300	87.1	31.9	<0.001	0.02	2.37	3.8	<0.2	5.6	14.2	<0.01	0.02	7.4
YY18246		4.58	17.6	370	28.8	23.9	<0.001	0.03	0.96	3.7	0.6	5.1	11.4	0.01	0.05	4.9
YY18247		6.87	18.7	480	61.8	43.5	<0.001	0.02	1.33	5.5	<0.2	4.6	15.2	<0.01	0.03	16.1
YY18248		4.39	19.0	380	77.2	33.9	<0.001	0.02	1.73	6.3	0.5	3.2	14.4	<0.01	0.02	13.6
YY18249		4.63	13.9	260	98.7	42.6	<0.001	0.01	2.53	5.0	<0.2	4.0	11.7	<0.01	0.01	17.7
YY18250		3.20	20.4	400	41.5	24.7	<0.001	0.01	1.32	5.0	0.3	2.6	16.1	0.01	0.03	11.4
YY18251		3.26	15.4	410	76.9	31.9	0.001	0.03	2.28	4.1	0.4	4.3	16.2	<0.01	0.01	7.8
YY18252		2.03	17.3	630	49.6	18.6	0.001	0.02	1.67	4.5	0.3	2.1	19.0	<0.01	0.01	9.8
YY18253		1.98	22.2	870	26.0	34.3	<0.001	0.02	0.71	4.8	0.2	1.0	22.0	<0.01	0.01	7.0
YY18254		0.96	7.2	400	72.1	5.4	0.001	0.03	0.57	1.3	<0.2	0.5	12.8	<0.01	0.02	0.5
YY18255		1.40	10.0	310	247	21.9	<0.001	0.40	0.49	1.4	0.4	0.4	11.2	<0.01	0.34	5.5
YY18256		2.68	3.0	290	189.0	69.6	<0.001	0.41	0.52	1.0	0.2	0.8	11.8	<0.01	0.30	46.0
YY18257		1.51	10.4	340	315	19.7	<0.001	0.17	1.56	1.4	0.2	0.6	14.0	<0.01	0.30	14.6
YY18258		1.44	5.2	300	301	25.2	<0.001	0.26	2.33	1.0	<0.2	0.6	16.0	<0.01	0.22	31.0
YY18259		1.86	9.2	520	177.5	37.6	<0.001	0.17	2.46	1.5	0.6	0.8	20.3	<0.01	0.18	12.6
YY18260		1.07	14.7	580	46.2	20.5	<0.001	0.15	1.01	1.9	0.4	0.6	16.5	<0.01	0.12	5.2
YY18261		1.05	6.1	500	209	44.5	<0.001	0.69	11.20	1.2	1.2	0.9	17.3	<0.01	0.37	18.4
YY18262		1.68	14.0	600	44.1	30.0	<0.001	0.08	1.24	3.7	0.5	0.7	27.1	<0.01	0.06	26.6
YY18263		1.23	13.1	720	63.1	24.5	<0.001	0.12	1.29	2.5	0.2	0.6	24.9	<0.01	0.09	15.5
YY18264		1.65	15.1	860	190.5	25.8	<0.001	0.13	1.03	2.3	0.6	0.7	23.6	<0.01	0.09	5.1
YY18265		0.97	11.9	490	53.9	14.4	<0.001	0.05	0.33	1.9	0.2	0.5	14.2	<0.01	0.03	1.9
YY18266		2.83	11.1	420	52.9	18.3	<0.001	0.05	0.44	2.2	0.4	0.6	11.2	<0.01	0.04	12.7
YY18267		1.90	14.9	370	31.1	18.3	<0.001	0.02	0.34	3.6	0.3	0.7	14.5	<0.01	0.03	13.9
YY18268		1.73	18.6	410	63.9	19.8	<0.001	0.15	0.60	3.3	0.6	0.6	18.8	<0.01	0.12	10.0
YY18269		2.76	10.4	230	88.9	36.5	<0.001	0.24	0.58	2.1	<0.2	0.6	12.6	<0.01	0.15	22.2
YY18270		1.92	9.6	270	170.5	69.5	<0.001	0.15	0.80	2.7	0.2	0.7	17.8	<0.01	0.19	31.4
YY18271		2.29	14.2	320	219	24.2	<0.001	0.18	0.96	2.3	0.5	0.6	17.1	0.01	0.10	23.8
YY18272		2.43	15.3	250	147.0	24.6	<0.001	0.12	0.82	2.8	0.5	0.5	12.6	<0.01	0.10	18.4
YY18273		2.48	16.0	360	272	20.6	<0.001	0.13	1.02	2.7	0.4	0.5	12.4	<0.01	0.23	9.5
YY18274		2.13	12.9	400	221	24.1	<0.001	0.11	1.02	2.8	0.3	0.5	13.1	<0.01	0.18	12.6
YY18275		1.58	11.1	400	223	27.2	<0.001	0.10	0.99	2.5	0.2	0.6	14.8	<0.01	0.27	6.6
YY18276		6.15	9.4	360	115.5	34.8	<0.001	0.36	0.86	1.9	0.5	0.5	11.8	<0.01	0.23	32.0
YY18277		4.21	2.3	180	1025	23.6	<0.001	0.41	2.09	0.8	0.5	0.5	8.0	0.01	0.66	14.1
YY18278		1.64	76.1	740	474	32.7	0.001	0.06	13.30	4.7	1.3	0.7	56.0	0.01	0.16	5.1
YY18279		1.73	68.3	640	339	30.8	<0.001	0.05	8.45	4.2	1.4	0.6	53.7	0.01	0.19	5.6
YY18280		0.62	71.4	650	105.0	41.2	<0.001	0.03	4.81	8.4	1.5	0.6	124.5	0.01	0.25	11.0

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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VANCOUVER BC V6B 1L8

Finalized Date: 6-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198419

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18241		0.090	0.26	5.57	46	0.58	33.2	135	1.1
YY18242		0.092	0.26	3.57	48	0.39	29.1	141	0.9
YY18243		0.106	0.21	4.42	53	0.29	40.8	76	1.9
YY18244		0.113	0.20	1.93	57	0.29	14.75	64	1.9
YY18245		0.097	0.29	2.52	48	0.23	17.05	112	0.9
YY18246		0.097	0.26	2.35	66	0.27	12.40	71	1.0
YY18247		0.111	0.34	4.15	49	0.32	30.2	97	2.1
YY18248		0.104	0.31	2.99	57	0.30	29.2	147	2.9
YY18249		0.084	0.38	4.88	40	0.26	37.1	221	1.1
YY18250		0.101	0.23	2.23	52	0.22	16.15	117	3.5
YY18251		0.081	0.28	3.62	50	0.25	20.3	156	0.7
YY18252		0.085	0.22	2.99	48	0.16	24.2	107	1.0
YY18253		0.127	0.27	1.24	58	0.31	13.10	77	1.5
YY18254		0.060	0.10	0.53	44	0.16	2.56	65	0.8
YY18255		0.053	0.33	0.70	33	0.16	2.79	46	<0.5
YY18256		0.024	0.95	2.34	9	0.11	5.45	94	2.8
YY18257		0.053	0.28	1.66	33	0.18	3.63	84	0.7
YY18258		0.035	0.40	2.42	19	0.13	3.76	70	2.4
YY18259		0.057	0.54	3.09	32	0.15	3.83	68	1.5
YY18260		0.063	0.31	1.36	44	0.21	3.54	57	1.1
YY18261		0.040	0.64	2.19	29	0.76	3.11	43	3.5
YY18262		0.079	0.50	4.51	43	0.40	8.38	63	4.3
YY18263		0.075	0.42	2.53	42	0.39	5.09	61	2.1
YY18264		0.055	0.54	4.64	42	0.41	4.60	73	1.8
YY18265		0.059	0.21	2.29	36	0.18	5.53	86	0.8
YY18266		0.076	0.22	1.87	46	0.19	3.67	98	1.4
YY18267		0.089	0.24	2.87	55	0.23	9.60	77	1.8
YY18268		0.089	0.28	0.90	53	0.19	4.13	55	1.6
YY18269		0.079	0.50	1.21	32	0.14	3.07	57	3.1
YY18270		0.078	0.88	2.83	27	0.17	4.88	81	4.6
YY18271		0.064	0.36	1.83	35	7.28	3.20	66	3.0
YY18272		0.080	0.35	1.41	40	0.20	3.36	61	5.4
YY18273		0.071	0.38	1.29	44	0.22	4.06	58	1.0
YY18274		0.078	0.38	1.31	40	0.17	4.75	61	1.1
YY18275		0.070	0.33	1.44	35	0.15	5.03	67	0.6
YY18276		0.062	0.43	1.09	29	0.22	3.08	50	2.9
YY18277		0.027	0.37	0.82	17	0.33	2.50	29	1.0
YY18278		0.093	0.80	2.11	112	0.38	4.93	529	0.5
YY18279		0.089	0.72	2.80	103	0.48	5.57	377	0.5
YY18280		0.090	0.98	3.09	118	0.46	10.60	487	2.7

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Project: CN

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18281		0.39	0.001	0.45	3.81	243	<0.02	<10	230	1.06	0.92	0.21	2.35	26.7	15.3	85
YY18282		0.32	0.001	0.33	2.24	71.4	<0.02	<10	170	0.59	1.03	0.30	0.99	27.5	7.4	44
YY18283		0.32	0.002	0.28	2.00	79.3	<0.02	<10	130	0.79	0.83	0.25	0.78	34.7	6.2	24
YY18284		0.45	0.002	0.15	3.29	123.0	<0.02	<10	210	1.30	0.88	0.26	1.03	35.0	12.9	43
YY18285		0.40	0.002	0.25	2.46	76.1	<0.02	<10	200	0.87	1.20	0.35	0.40	35.2	7.0	38
YY18286		0.35	0.001	0.07	3.55	46.5	<0.02	<10	260	1.58	1.37	0.49	0.65	37.7	13.8	47
YY18287		0.43	<0.001	0.15	3.88	36.4	<0.02	<10	410	1.10	1.30	0.49	0.27	27.7	13.1	41
YY18288		0.42	0.002	0.13	2.76	60.9	<0.02	<10	290	0.70	0.49	0.27	0.31	26.0	12.0	51
YY18289		0.32	0.002	0.45	2.25	138.0	<0.02	<10	380	0.69	0.61	0.33	0.44	26.6	11.9	46
YY18290		0.30	0.003	0.57	2.49	134.5	<0.02	<10	270	0.70	0.63	0.34	0.47	28.5	10.7	53
YY18291		0.42	<0.001	0.10	3.33	40.6	<0.02	<10	300	1.04	0.26	1.23	0.54	42.1	15.3	20
YY18292		0.41	<0.001	0.13	3.66	30.1	<0.02	<10	170	1.40	0.17	2.06	0.13	33.6	6.1	14
YY18293		0.41	<0.001	0.29	2.59	7.5	<0.02	<10	120	1.76	0.19	0.89	0.20	27.4	5.0	12
YY18294		0.41	<0.001	0.14	3.43	7.0	<0.02	<10	150	1.46	0.22	1.66	0.17	37.1	6.0	12
YY18295		0.51	<0.001	0.21	2.84	8.9	<0.02	<10	140	1.26	0.36	1.10	0.20	36.6	6.2	14
YY18296		0.38	<0.001	0.08	2.50	10.4	<0.02	<10	140	0.78	0.30	0.84	0.20	32.0	8.8	18
YY18297		0.42	0.001	0.14	1.96	12.8	<0.02	<10	220	0.80	0.23	0.42	0.12	36.8	8.8	27
YY18298		0.50	0.001	0.07	2.86	14.2	<0.02	<10	180	1.11	0.26	0.52	0.18	29.7	10.3	26
YY18299		0.44	<0.001	0.16	2.29	36.6	<0.02	<10	130	0.96	0.70	0.37	0.31	25.1	7.5	22
YY18300		0.38	0.001	0.40	1.95	87.7	<0.02	<10	120	1.21	3.07	0.50	0.39	30.6	5.7	15
YY18301		0.42	0.003	0.83	1.59	117.5	<0.02	<10	130	0.92	4.04	0.37	0.32	35.6	4.9	17
YY18302		0.40	0.002	0.20	2.03	67.9	<0.02	<10	170	0.74	0.43	0.25	0.42	36.7	7.4	24
YY18303		0.39	0.023	3.15	2.63	436	0.02	<10	140	0.97	1.56	0.20	1.48	30.7	9.2	27
YY18304		0.37	0.004	0.29	2.02	109.0	<0.02	<10	180	0.58	0.44	0.27	0.31	24.7	7.1	26
YY18305		0.37	0.002	0.30	2.77	55.5	<0.02	<10	160	0.66	0.42	0.20	0.28	22.6	7.6	27
YY18306		0.37	0.005	0.22	2.78	32.7	<0.02	<10	230	1.29	1.05	0.27	0.42	43.2	12.4	38
YY18307		0.39	<0.001	0.15	1.70	20.0	<0.02	<10	90	0.40	0.63	0.15	0.16	20.9	5.2	24
YY18308		0.39	0.016	2.63	2.42	286	<0.02	<10	160	0.83	1.00	0.22	0.56	26.1	7.0	28
YY18309		0.36	0.007	0.71	2.24	131.0	<0.02	<10	170	0.62	1.37	0.44	0.55	28.0	8.2	26
YY18310		0.35	0.002	0.76	2.61	115.5	<0.02	<10	180	0.80	1.42	0.37	0.77	27.4	7.6	22
YY18311		0.42	0.002	0.93	2.04	88.3	<0.02	<10	150	0.62	0.73	0.46	0.34	26.7	5.7	18
YY18312		0.40	0.003	0.46	1.77	87.6	<0.02	<10	130	0.59	0.51	0.43	0.52	27.2	6.1	19
YY18313		0.45	0.004	0.71	2.38	110.5	<0.02	<10	170	0.73	0.66	0.50	0.56	31.2	13.2	26
YY18314		0.47	0.004	0.40	2.19	75.1	0.02	<10	190	0.57	0.46	0.50	0.47	34.4	9.8	26
YY18315		0.49	0.001	0.16	2.13	105.5	<0.02	<10	140	0.62	0.57	0.47	0.46	28.8	14.1	24
YY18316		0.42	0.002	0.10	2.65	104.5	<0.02	<10	210	1.41	0.42	0.58	0.34	36.8	10.8	28
YY18317		0.41	<0.001	0.04	4.64	74.1	<0.02	<10	180	1.79	0.10	0.92	1.35	47.9	15.2	66
YY18318		0.43	0.002	0.79	1.89	32.2	<0.02	<10	250	0.56	0.27	0.36	0.37	38.2	11.8	31
YY18319		0.39	0.003	0.49	1.88	92.0	<0.02	<10	270	0.75	0.53	0.64	0.44	36.0	8.7	24
YY18320		0.36	0.002	0.54	2.09	142.5	<0.02	<10	130	0.68	0.69	0.18	0.56	23.9	6.9	23

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North Vancouver BC V7H 0A7
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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18281		4.19	38.0	4.01	10.40	0.05	0.06	0.04	0.047	0.10	13.6	32.4	0.99	484	4.03	0.01
YY18282		2.01	28.4	2.67	7.02	<0.05	0.02	0.03	0.026	0.11	14.9	15.9	0.77	326	1.39	0.01
YY18283		1.76	24.7	2.40	6.60	0.05	<0.02	0.02	0.024	0.10	19.1	14.4	0.57	349	1.48	<0.01
YY18284		2.67	30.0	3.36	8.35	<0.05	0.04	0.03	0.033	0.12	18.8	22.9	0.75	601	2.43	0.01
YY18285		2.30	35.2	2.71	7.39	0.06	<0.02	0.03	0.026	0.09	20.0	18.0	0.67	354	2.14	0.01
YY18286		3.42	34.9	2.95	8.32	0.05	0.06	0.02	0.025	0.15	18.7	20.8	0.96	865	2.85	0.01
YY18287		3.89	39.0	4.10	11.70	0.09	0.02	0.01	0.060	0.54	13.4	27.1	1.60	474	1.69	0.01
YY18288		2.26	45.0	3.39	8.37	0.05	0.03	0.03	0.032	0.15	13.0	21.4	0.81	386	2.03	0.01
YY18289		2.52	49.4	2.86	7.56	0.05	<0.02	0.03	0.027	0.19	12.9	22.0	0.74	353	2.76	0.01
YY18290		2.32	39.6	3.24	8.26	0.05	0.02	0.02	0.035	0.15	14.1	22.0	0.79	406	2.35	0.01
YY18291		7.15	38.5	2.54	9.28	0.06	0.05	0.01	0.022	0.29	19.2	19.2	0.49	792	1.60	0.01
YY18292		3.01	15.5	2.68	11.25	0.07	0.03	0.01	0.030	0.15	18.1	13.3	0.48	342	1.27	<0.01
YY18293		3.69	33.0	2.04	6.98	<0.05	<0.02	0.02	0.020	0.08	19.3	14.9	0.33	240	1.25	0.03
YY18294		6.87	28.2	2.36	8.80	0.05	0.04	0.02	0.024	0.15	27.0	17.3	0.46	298	1.18	0.02
YY18295		5.60	29.0	2.70	7.73	0.05	0.02	0.01	0.024	0.08	26.3	19.4	0.44	275	1.70	0.03
YY18296		4.60	28.3	3.03	8.70	0.05	0.02	0.02	0.026	0.11	20.9	18.5	0.47	400	1.06	0.02
YY18297		2.40	29.5	2.83	5.84	0.06	0.06	0.02	0.022	0.07	19.6	16.9	0.55	341	1.08	0.01
YY18298		3.82	34.0	3.02	7.28	0.05	0.06	0.02	0.031	0.09	17.7	17.0	0.50	387	2.02	0.01
YY18299		4.32	26.7	2.96	8.06	0.05	0.02	0.03	0.028	0.06	15.1	21.9	0.41	286	3.62	0.01
YY18300		3.40	57.1	2.14	7.22	<0.05	<0.02	0.01	0.031	0.05	20.1	12.3	0.31	244	5.08	0.02
YY18301		3.55	39.1	1.85	6.53	0.07	<0.02	0.03	0.031	0.05	23.9	9.5	0.24	438	2.80	0.01
YY18302		2.30	15.1	2.66	6.68	0.06	0.02	0.01	0.030	0.06	21.8	15.5	0.37	639	1.94	<0.01
YY18303		2.52	34.1	3.13	6.33	0.05	0.08	0.07	0.068	0.06	16.7	17.5	0.44	546	1.75	<0.01
YY18304		2.47	16.1	2.80	7.05	<0.05	0.05	0.02	0.025	0.07	13.4	15.8	0.45	328	1.76	0.01
YY18305		2.90	18.6	3.03	8.11	<0.05	0.07	0.05	0.027	0.05	11.9	17.9	0.42	254	1.75	0.01
YY18306		2.82	57.7	3.32	7.32	0.05	0.22	0.04	0.037	0.07	25.9	20.3	0.62	469	2.15	0.01
YY18307		2.47	16.7	3.24	10.60	<0.05	0.03	0.02	0.024	0.05	11.5	13.1	0.34	273	3.88	<0.01
YY18308		2.42	34.1	3.01	7.29	<0.05	0.07	0.05	0.045	0.06	14.2	17.9	0.48	262	7.97	<0.01
YY18309		2.95	26.7	3.00	7.76	0.05	0.04	0.03	0.044	0.07	16.9	18.6	0.51	386	4.24	0.01
YY18310		2.79	22.2	3.10	8.69	<0.05	0.03	0.03	0.043	0.06	16.5	22.9	0.56	429	4.37	0.01
YY18311		3.22	17.2	2.70	7.42	0.05	0.03	0.02	0.036	0.05	17.3	16.5	0.46	338	1.91	0.01
YY18312		2.45	21.4	2.42	6.45	0.05	0.02	0.03	0.027	0.06	16.6	14.9	0.41	295	1.66	0.01
YY18313		2.72	23.5	3.47	8.22	0.06	0.04	0.03	0.047	0.07	18.2	22.0	0.62	685	1.77	0.01
YY18314		2.15	23.1	3.31	7.16	0.05	0.05	0.02	0.040	0.07	19.5	19.3	0.57	473	1.33	0.01
YY18315		3.82	20.4	3.67	9.70	0.06	0.06	0.05	0.036	0.06	16.2	17.8	0.56	1040	1.94	0.01
YY18316		4.38	25.7	3.03	8.43	0.05	0.11	0.02	0.036	0.06	19.6	18.3	0.58	533	1.07	0.01
YY18317		17.35	25.8	3.87	17.85	0.11	0.03	0.01	0.041	0.34	22.5	41.3	0.89	575	0.33	0.01
YY18318		0.84	30.4	3.00	5.39	0.05	0.09	0.04	0.025	0.06	19.5	13.5	0.55	471	0.98	0.01
YY18319		2.09	26.3	2.90	6.42	0.07	0.11	0.02	0.032	0.08	21.8	16.0	0.60	494	1.17	0.02
YY18320		2.00	14.8	3.49	9.82	<0.05	0.05	0.02	0.030	0.06	12.6	15.2	0.37	397	2.60	<0.01

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 6-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198419

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18281		1.74	60.9	400	120.5	28.0	0.001	0.03	4.97	6.1	1.0	0.7	47.7	<0.01	0.09	5.0
YY18282		1.50	32.8	360	36.8	17.5	<0.001	0.02	1.29	3.9	0.5	0.5	35.5	<0.01	0.05	3.3
YY18283		1.53	23.7	360	49.8	17.0	<0.001	0.02	1.21	2.3	0.3	0.7	32.5	<0.01	0.04	3.1
YY18284		2.08	41.7	360	88.4	22.2	<0.001	0.02	1.23	4.6	0.6	0.7	31.7	<0.01	0.06	8.8
YY18285		1.53	32.1	440	43.0	19.8	<0.001	0.02	0.72	3.8	0.6	0.6	36.1	<0.01	0.05	2.7
YY18286		2.26	61.6	320	19.2	22.6	<0.001	0.02	0.70	5.1	0.4	0.6	56.3	0.02	0.22	9.1
YY18287		1.51	36.2	780	26.6	47.4	0.001	0.04	0.53	8.9	0.4	2.0	74.5	0.01	0.09	4.2
YY18288		2.01	36.2	650	18.6	18.8	<0.001	0.03	0.52	5.4	0.7	0.5	37.2	<0.01	0.08	3.1
YY18289		1.71	36.0	810	26.9	25.1	<0.001	0.04	0.70	4.9	0.9	0.6	45.3	<0.01	0.05	1.3
YY18290		2.40	34.9	690	79.8	21.9	<0.001	0.03	0.80	5.2	0.9	0.6	45.8	<0.01	0.08	2.4
YY18291		2.11	38.2	940	16.4	41.6	0.001	0.02	0.46	3.3	0.4	0.5	160.5	0.01	0.06	19.2
YY18292		2.05	12.0	880	10.9	14.6	0.001	0.01	0.46	4.1	0.4	0.7	378	<0.01	0.03	7.3
YY18293		0.86	7.5	900	25.9	11.0	<0.001	0.02	0.30	1.5	0.3	0.4	152.0	<0.01	0.02	2.1
YY18294		1.14	7.4	1340	30.0	19.3	<0.001	0.01	0.28	2.6	<0.2	0.4	234	<0.01	0.02	14.4
YY18295		1.25	9.2	1230	57.8	13.2	<0.001	0.01	0.36	2.6	<0.2	0.4	180.0	0.01	0.02	17.0
YY18296		1.80	10.9	1170	33.5	19.4	<0.001	0.02	0.38	2.5	0.2	0.5	122.0	0.01	0.05	6.5
YY18297		1.32	18.4	600	27.0	13.8	<0.001	0.02	0.41	4.4	0.4	0.5	55.0	0.01	0.03	9.3
YY18298		1.59	17.9	790	29.9	17.8	<0.001	0.02	0.50	3.6	0.3	0.5	84.1	0.01	0.03	11.4
YY18299		1.75	13.3	530	58.7	13.3	<0.001	0.02	0.38	2.8	<0.2	0.6	92.2	0.01	0.05	5.1
YY18300		0.75	8.0	680	67.4	10.3	<0.001	0.02	0.34	1.5	0.3	0.5	116.0	<0.01	0.04	1.1
YY18301		0.72	9.7	450	78.9	9.8	<0.001	0.02	0.51	2.0	0.2	0.4	143.0	0.01	0.06	2.8
YY18302		1.18	14.0	370	81.2	10.1	<0.001	0.02	0.45	2.5	0.4	0.6	193.5	<0.01	0.03	7.0
YY18303		1.41	20.6	400	810	12.5	0.001	0.03	3.62	3.5	0.4	0.5	88.2	0.01	0.04	10.5
YY18304		1.55	17.0	320	56.3	12.5	<0.001	0.02	0.90	3.1	0.2	0.6	72.4	<0.01	0.03	6.7
YY18305		2.11	17.9	300	41.0	11.1	0.001	0.02	0.77	3.5	0.2	0.7	50.0	0.01	0.04	8.5
YY18306		1.22	26.7	380	98.3	14.9	<0.001	0.02	0.63	6.2	0.4	0.7	50.5	0.01	0.04	19.5
YY18307		2.33	12.7	430	18.1	10.6	<0.001	0.02	0.48	2.3	0.3	0.9	32.8	<0.01	0.03	5.0
YY18308		1.51	18.2	390	565	17.2	<0.001	0.02	2.15	3.6	<0.2	0.6	35.4	<0.01	0.03	12.0
YY18309		1.50	16.0	690	194.0	13.5	<0.001	0.02	1.65	3.1	0.2	0.6	105.5	0.01	0.04	10.6
YY18310		1.70	14.2	580	150.5	14.4	<0.001	0.02	1.61	3.3	<0.2	0.7	97.1	<0.01	0.05	14.1
YY18311		1.58	11.1	680	159.0	11.7	<0.001	0.02	1.28	2.4	0.3	0.6	125.0	0.01	0.02	9.3
YY18312		1.47	10.6	730	166.0	11.0	0.001	0.02	0.93	2.3	<0.2	0.5	95.0	0.01	0.02	8.8
YY18313		1.58	17.7	850	287	14.1	<0.001	0.02	1.24	3.3	<0.2	0.5	85.2	<0.01	0.04	13.0
YY18314		1.44	18.1	930	136.5	10.7	<0.001	0.02	1.39	3.3	0.2	0.5	88.8	0.01	0.02	12.4
YY18315		1.24	16.6	1040	89.8	14.0	<0.001	0.01	0.77	4.0	0.2	0.5	81.2	0.01	0.03	14.2
YY18316		0.91	19.3	530	78.3	11.9	<0.001	0.01	0.62	5.5	0.3	0.5	81.0	0.02	0.03	17.2
YY18317		1.36	30.8	360	26.4	42.3	0.001	0.01	0.30	9.0	<0.2	0.9	84.2	0.01	0.03	16.0
YY18318		0.96	26.6	720	79.4	6.5	0.001	0.02	0.66	5.5	0.4	0.5	38.6	<0.01	0.02	6.3
YY18319		1.06	17.7	790	155.0	12.8	<0.001	0.02	1.04	4.6	0.2	0.5	144.0	0.01	0.02	17.6
YY18320		2.24	12.2	520	98.5	18.2	<0.001	0.02	0.73	2.9	0.2	0.7	60.7	<0.01	0.04	6.7

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 6-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198419

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18281		0.088	0.47	1.35	113	0.32	4.71	337	2.7
YY18282		0.092	0.28	1.30	64	0.18	4.08	213	0.7
YY18283		0.065	0.22	2.36	46	0.34	4.77	183	0.5
YY18284		0.093	0.38	2.43	71	0.41	6.85	238	1.8
YY18285		0.083	0.31	3.33	62	0.29	7.85	137	0.5
YY18286		0.105	0.39	1.52	78	0.36	7.25	154	3.3
YY18287		0.184	0.47	1.40	84	0.28	10.30	113	0.8
YY18288		0.138	0.26	1.26	99	0.18	5.54	99	1.2
YY18289		0.119	0.32	1.65	97	0.23	7.83	100	2.1
YY18290		0.142	0.25	1.21	93	0.23	5.74	126	0.9
YY18291		0.125	0.34	1.61	60	0.21	6.47	109	2.1
YY18292		0.131	0.18	1.60	69	0.17	8.63	53	0.6
YY18293		0.042	0.13	4.20	41	2.01	3.40	53	<0.5
YY18294		0.063	0.17	2.18	46	1.38	3.93	58	1.2
YY18295		0.059	0.18	2.10	57	1.59	4.17	63	0.8
YY18296		0.095	0.19	1.69	65	1.01	4.21	53	0.7
YY18297		0.095	0.17	4.91	61	1.47	6.52	54	2.4
YY18298		0.093	0.19	3.65	60	6.54	4.50	62	2.4
YY18299		0.086	0.14	2.78	66	3.23	3.49	70	0.9
YY18300		0.050	0.14	5.53	46	4.51	4.38	69	<0.5
YY18301		0.037	0.10	2.92	35	0.26	7.47	77	<0.5
YY18302		0.042	0.11	1.96	50	0.26	5.72	108	0.8
YY18303		0.053	0.18	2.61	54	0.31	4.32	294	3.8
YY18304		0.082	0.13	1.36	61	0.32	3.60	69	1.6
YY18305		0.080	0.16	1.04	64	0.95	3.17	69	3.1
YY18306		0.097	0.20	3.41	67	1.79	6.19	92	10.8
YY18307		0.115	0.14	0.84	85	2.05	2.04	45	1.3
YY18308		0.087	0.19	3.07	65	2.31	3.97	87	2.8
YY18309		0.090	0.16	2.07	62	5.42	3.61	143	1.7
YY18310		0.079	0.15	1.80	63	2.64	3.28	119	1.2
YY18311		0.088	0.12	2.00	59	1.71	3.75	87	0.8
YY18312		0.089	0.13	2.09	53	4.04	3.35	99	0.9
YY18313		0.104	0.14	1.69	70	3.08	4.07	133	1.7
YY18314		0.102	0.12	2.10	68	2.73	4.68	101	2.0
YY18315		0.104	0.12	2.87	79	0.76	4.75	127	2.6
YY18316		0.100	0.14	3.80	64	0.56	5.64	106	5.2
YY18317		0.162	0.40	2.38	65	2.65	7.76	155	1.3
YY18318		0.097	0.08	4.25	64	0.59	9.64	67	4.0
YY18319		0.108	0.13	6.19	60	1.72	8.46	101	4.2
YY18320		0.107	0.15	1.38	84	0.60	2.85	93	1.8

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18321		0.41	0.005	2.06	1.88	311	<0.02	<10	140	0.84	1.28	0.62	0.97	39.9	5.4	14
YY18322		0.36	0.007	0.59	2.53	128.0	<0.02	<10	160	0.71	0.86	0.27	0.57	25.2	10.6	31
YY18323		0.34	0.007	2.08	2.13	260	<0.02	<10	170	1.05	1.02	0.67	0.67	34.5	6.7	19
YY18324		0.45	0.009	2.55	2.57	304	<0.02	<10	150	0.79	2.46	0.26	0.72	28.9	7.1	26
YY18325		0.38	0.005	0.81	2.77	166.5	<0.02	<10	210	1.10	0.47	0.35	0.76	28.8	12.3	29
YY18326		0.39	0.001	0.40	1.91	134.5	<0.02	<10	150	0.45	0.41	0.27	0.59	23.4	6.0	23
YY18327		0.44	0.003	0.58	2.59	120.5	<0.02	<10	180	1.21	0.90	0.37	0.69	31.3	7.6	26
YY18328		0.36	0.001	0.18	2.07	50.0	<0.02	<10	140	0.83	0.39	0.48	0.25	26.6	6.8	17
YY18329		0.35	0.002	0.70	2.36	37.6	<0.02	<10	190	1.03	0.93	0.43	0.32	31.0	8.1	23
YY18330		0.36	0.002	0.08	2.12	17.3	<0.02	<10	180	0.59	0.27	0.25	0.22	25.3	7.3	26
YY18331		0.36	0.002	0.27	1.70	42.2	<0.02	<10	190	0.61	0.31	0.26	0.25	25.9	6.5	23
YY18332		0.35	0.009	0.55	1.36	234	<0.02	<10	120	0.53	0.61	0.20	0.98	41.2	6.2	19
YY18333		0.41	<0.001	0.05	2.48	34.2	<0.02	<10	100	0.85	1.36	1.02	0.19	32.1	4.4	7
YY18334		0.45	<0.001	0.19	2.27	29.9	<0.02	<10	160	1.02	6.07	1.02	0.26	31.4	5.4	12
YY18335		0.35	0.002	0.16	2.51	13.6	<0.02	<10	130	1.51	0.79	1.18	0.14	37.1	6.1	15
YY18336		0.39	0.001	0.24	2.35	13.8	<0.02	<10	140	1.05	0.38	0.52	0.21	25.8	5.6	18
YY18337		0.37	0.002	0.25	1.81	7.4	<0.02	<10	130	1.04	0.45	0.58	0.18	23.6	3.6	13
YY18338		0.29	0.003	0.29	2.03	141.5	<0.02	<10	150	0.52	0.48	0.10	0.95	31.5	7.5	33
YY18339		0.43	0.006	1.19	1.51	821	<0.02	<10	190	0.51	4.75	0.13	0.98	53.8	7.8	27
YY18340		0.35	0.003	0.47	1.48	377	<0.02	<10	220	0.49	2.51	0.16	0.79	36.6	6.7	32
YY18341		0.40	0.004	0.47	1.91	357	<0.02	<10	210	0.50	1.74	0.15	0.78	33.5	7.1	38
YY18342		0.41	0.004	0.32	1.94	226	<0.02	<10	220	0.55	0.81	0.13	0.60	36.0	9.1	35
YY18343		0.38	0.003	0.36	1.85	193.0	<0.02	<10	230	0.51	0.71	0.16	0.64	32.5	8.4	35
YY18344		0.42	0.004	0.32	1.99	149.0	<0.02	<10	200	0.51	0.96	0.13	0.48	31.9	10.2	35
YY18345		0.35	0.004	0.25	1.95	95.8	<0.02	<10	220	0.52	0.57	0.16	0.39	30.4	8.8	32
YY18346		0.40	0.004	0.24	1.78	99.8	<0.02	<10	200	0.49	0.62	0.20	0.45	31.0	8.5	31
YY18347		0.38	0.004	0.16	1.91	89.4	<0.02	<10	190	0.44	0.81	0.20	0.37	27.7	8.3	33
YY18348		0.46	0.003	0.18	1.72	121.0	<0.02	<10	200	0.47	1.08	0.10	0.43	30.0	5.9	34
YY18349		0.35	0.004	0.33	2.14	221	<0.02	<10	220	0.58	1.71	0.12	0.62	28.7	7.6	38
YY18350		0.43	0.005	0.35	1.68	259	<0.02	<10	260	0.53	2.09	0.09	0.43	24.7	4.6	36
YY18351		0.28	0.002	0.09	1.68	83.7	<0.02	<10	120	0.27	0.58	0.09	0.20	21.9	5.2	30
YY18352		0.43	0.004	0.20	2.31	137.5	<0.02	<10	280	0.95	1.33	0.32	0.41	32.7	11.3	46
YY18353		0.41	0.005	0.23	2.42	122.0	<0.02	<10	270	0.79	1.00	0.33	0.74	25.0	13.3	48
YY18354		0.40	0.002	0.09	2.89	125.5	<0.02	<10	270	0.84	1.20	0.36	0.39	26.1	12.5	54
YY18355		0.39	0.002	0.07	2.27	65.6	<0.02	<10	270	0.63	0.54	0.31	0.17	25.3	10.0	49
YY18356		0.37	0.003	0.05	2.25	69.1	<0.02	<10	240	0.60	0.56	0.24	0.18	26.6	9.7	45
YY18357		0.32	0.004	0.13	2.06	70.8	<0.02	<10	180	0.49	0.88	0.23	0.22	20.4	7.1	46
YY18358		0.35	0.002	0.48	2.30	56.6	<0.02	<10	170	0.56	0.93	0.24	0.42	25.3	5.5	37
YY18359		0.40	0.003	0.22	2.27	40.5	<0.02	<10	260	0.65	0.52	0.25	0.36	26.2	8.8	40
YY18360		0.45	0.004	0.43	2.45	44.4	<0.02	<10	290	0.64	0.64	0.27	0.48	28.3	9.7	44

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Project: CN

Finalized Date: 6-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198419

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18321		4.91	19.3	2.56	7.58	0.05	0.03	0.02	0.044	0.10	23.9	16.9	0.42	535	1.56	0.01
YY18322		2.61	27.9	3.94	7.86	<0.05	0.06	0.02	0.044	0.07	13.1	26.1	0.58	440	2.73	0.01
YY18323		3.21	41.0	3.05	8.25	0.05	0.02	0.05	0.039	0.07	22.3	24.2	0.52	391	2.62	0.01
YY18324		3.41	24.8	3.48	10.00	0.05	0.07	0.04	0.054	0.05	17.7	20.7	0.50	334	3.87	0.01
YY18325		3.08	32.9	3.47	8.84	0.05	0.02	0.05	0.052	0.08	17.1	20.2	0.48	650	3.78	0.01
YY18326		2.30	14.2	2.97	9.49	<0.05	0.03	0.01	0.039	0.06	12.6	15.9	0.40	283	14.00	0.01
YY18327		3.59	26.3	3.62	9.56	0.05	0.04	0.03	0.043	0.07	18.6	26.0	0.50	338	14.15	0.02
YY18328		5.25	23.5	2.33	7.50	<0.05	<0.02	0.01	0.023	0.07	16.3	17.0	0.40	329	2.52	0.01
YY18329		4.75	35.8	2.70	7.98	0.06	<0.02	0.04	0.034	0.07	19.5	21.5	0.43	388	6.36	0.01
YY18330		2.00	16.6	2.74	6.24	<0.05	0.02	0.02	0.027	0.05	14.0	15.3	0.46	265	2.39	<0.01
YY18331		1.69	16.9	2.35	5.78	0.06	0.02	0.02	0.024	0.05	18.5	14.2	0.38	294	1.37	<0.01
YY18332		1.47	16.3	2.25	5.21	<0.05	<0.02	0.03	0.047	0.06	21.6	10.8	0.32	530	2.14	<0.01
YY18333		4.94	18.6	2.13	8.26	<0.05	0.02	0.01	0.018	0.09	19.0	15.1	0.32	378	1.86	<0.01
YY18334		5.64	26.1	2.25	7.07	0.05	0.02	0.01	0.017	0.10	21.6	17.9	0.42	279	1.63	0.03
YY18335		4.83	25.3	2.33	7.25	0.05	0.02	0.02	0.022	0.08	25.0	22.5	0.42	308	1.45	0.01
YY18336		3.50	21.9	2.46	8.26	<0.05	<0.02	0.03	0.023	0.06	16.1	19.6	0.41	221	2.06	0.01
YY18337		2.59	19.1	1.71	6.00	<0.05	<0.02	0.03	0.017	0.05	14.7	10.1	0.26	145	1.11	0.02
YY18338		1.76	51.0	3.64	6.23	0.05	0.02	0.08	0.038	0.08	17.2	18.3	0.39	191	1.69	<0.01
YY18339		2.82	83.5	3.75	4.94	0.09	<0.02	0.02	0.096	0.19	28.0	13.3	0.46	217	2.08	<0.01
YY18340		2.03	51.6	3.21	6.90	0.06	<0.02	0.04	0.027	0.14	19.1	10.0	0.35	193	2.31	<0.01
YY18341		2.39	59.5	3.74	7.07	0.06	0.02	0.01	0.037	0.17	17.7	15.4	0.51	216	2.90	<0.01
YY18342		1.96	53.8	3.47	6.63	0.05	0.02	0.03	0.035	0.12	18.4	16.0	0.47	270	2.79	<0.01
YY18343		2.31	55.0	3.60	6.82	0.05	0.02	0.03	0.032	0.15	17.1	15.7	0.53	239	3.34	<0.01
YY18344		2.18	50.2	3.46	6.85	0.06	<0.02	0.04	0.028	0.15	16.8	17.2	0.56	285	2.87	<0.01
YY18345		1.66	44.5	2.91	5.56	0.06	0.02	0.04	0.027	0.11	15.2	14.1	0.54	288	1.83	<0.01
YY18346		1.91	46.2	2.85	5.54	0.07	0.02	0.02	0.028	0.13	15.9	14.2	0.56	262	2.21	<0.01
YY18347		1.81	38.3	3.04	6.07	0.06	0.03	0.02	0.032	0.11	14.1	14.6	0.58	257	1.99	<0.01
YY18348		2.18	44.5	3.25	7.46	<0.05	<0.02	0.03	0.031	0.15	15.5	12.9	0.51	233	2.82	<0.01
YY18349		2.59	53.5	3.32	7.41	0.05	<0.02	0.03	0.032	0.16	14.8	19.3	0.60	262	2.73	<0.01
YY18350		2.53	53.6	2.97	6.89	0.06	<0.02	0.02	0.033	0.20	13.1	17.0	0.64	206	3.04	<0.01
YY18351		1.68	19.5	3.63	7.89	<0.05	0.03	0.01	0.025	0.07	10.8	14.6	0.39	214	2.07	<0.01
YY18352		3.41	63.8	3.32	7.42	0.07	0.03	0.01	0.029	0.28	15.9	23.6	0.86	432	2.10	<0.01
YY18353		2.64	54.2	3.16	7.37	0.06	0.07	0.03	0.027	0.17	12.3	21.8	0.79	469	2.15	<0.01
YY18354		2.99	45.3	3.47	9.91	0.05	0.02	0.02	0.029	0.15	13.7	24.1	0.76	410	2.45	<0.01
YY18355		1.87	39.6	2.97	6.91	0.06	0.06	0.04	0.024	0.10	13.1	20.0	0.76	325	1.54	0.01
YY18356		1.91	34.3	2.93	7.53	<0.05	0.02	0.03	0.023	0.09	13.4	18.2	0.67	307	1.57	<0.01
YY18357		2.01	33.5	2.61	7.50	<0.05	0.02	0.02	0.023	0.09	10.3	15.1	0.57	246	1.68	0.01
YY18358		2.27	46.3	2.35	7.37	<0.05	<0.02	0.05	0.026	0.11	13.3	19.0	0.62	164	2.15	<0.01
YY18359		2.15	37.5	2.94	7.42	0.05	0.02	0.04	0.029	0.10	13.7	18.9	0.60	349	2.30	<0.01
YY18360		2.62	44.1	3.19	7.94	0.06	0.03	0.04	0.032	0.14	13.8	23.9	0.65	367	3.07	<0.01

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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CERTIFICATE OF ANALYSIS WH19198419

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18321		1.96	8.0	750	326	21.0	<0.001	0.03	1.97	2.7	0.2	0.5	177.0	0.01	0.02	17.3
YY18322		1.71	21.3	550	135.0	17.0	<0.001	0.02	1.03	3.5	<0.2	0.6	51.6	<0.01	0.04	8.9
YY18323		1.57	14.2	890	285	15.5	<0.001	0.02	1.09	3.3	0.3	0.5	114.0	<0.01	0.02	9.5
YY18324		1.90	14.4	460	472	18.2	<0.001	0.03	2.35	3.3	<0.2	0.7	66.1	<0.01	0.04	9.6
YY18325		1.35	17.9	870	153.5	17.7	0.001	0.03	0.71	3.5	0.2	0.5	73.9	<0.01	0.04	6.4
YY18326		1.78	12.7	410	132.5	15.8	<0.001	0.02	0.62	2.8	<0.2	0.8	72.3	<0.01	0.04	5.0
YY18327		1.84	16.5	620	108.0	19.3	0.001	0.03	0.94	3.7	<0.2	0.8	95.6	<0.01	0.05	10.1
YY18328		0.91	11.7	730	21.7	12.4	0.001	0.02	0.49	1.7	<0.2	0.5	121.0	0.01	0.02	1.7
YY18329		0.98	15.2	710	68.7	16.8	<0.001	0.03	0.72	2.7	0.6	0.6	105.0	<0.01	0.03	2.3
YY18330		1.24	16.3	490	17.7	9.5	<0.001	0.01	0.41	3.1	0.3	0.6	57.1	<0.01	0.03	4.0
YY18331		0.87	15.1	500	26.7	9.4	<0.001	0.01	0.46	2.5	0.3	0.5	40.9	<0.01	0.02	1.8
YY18332		0.65	11.5	550	138.5	9.9	0.001	0.02	0.98	1.8	0.4	0.5	47.9	<0.01	0.02	2.3
YY18333		0.81	4.7	700	22.9	8.8	<0.001	0.01	0.43	1.7	0.2	0.4	206	<0.01	0.01	8.9
YY18334		1.11	7.1	890	32.1	14.5	<0.001	0.01	0.36	2.6	<0.2	0.4	174.0	0.01	0.03	13.7
YY18335		1.06	8.0	980	26.7	10.6	<0.001	0.01	0.27	2.5	<0.2	0.4	198.5	<0.01	0.03	17.1
YY18336		1.38	11.8	670	36.8	12.4	<0.001	0.01	0.32	2.6	0.2	0.5	123.0	0.01	0.02	5.1
YY18337		0.49	7.4	680	20.7	8.2	<0.001	0.03	0.32	0.8	0.3	0.4	103.5	<0.01	0.03	0.4
YY18338		1.60	25.2	470	15.0	11.8	<0.001	0.07	1.75	3.0	0.9	0.6	21.4	<0.01	0.08	3.6
YY18339		0.82	29.3	860	608	21.7	<0.001	0.21	4.58	2.6	1.2	0.4	41.5	<0.01	0.15	5.0
YY18340		1.16	23.8	720	59.6	17.5	0.001	0.08	1.41	2.4	1.1	0.6	29.7	<0.01	0.10	1.0
YY18341		1.64	32.7	790	83.5	20.3	0.001	0.12	1.88	3.2	1.4	0.6	31.8	<0.01	0.08	2.8
YY18342		1.28	30.3	700	61.3	16.9	0.001	0.08	1.57	3.2	1.1	0.6	26.8	<0.01	0.08	1.8
YY18343		1.24	30.5	790	55.4	18.5	<0.001	0.10	1.58	2.5	1.3	0.6	28.6	<0.01	0.08	1.0
YY18344		1.34	28.2	700	38.5	19.8	<0.001	0.09	1.06	3.1	1.3	0.6	28.3	<0.01	0.09	2.5
YY18345		1.03	26.0	710	27.2	14.6	<0.001	0.06	0.83	3.2	0.6	0.5	23.7	<0.01	0.04	1.7
YY18346		1.04	24.8	760	23.4	16.9	<0.001	0.09	0.95	3.1	1.0	0.5	26.5	<0.01	0.06	1.8
YY18347		1.24	26.7	760	23.1	15.5	<0.001	0.06	0.84	3.4	0.8	0.5	23.1	<0.01	0.06	2.5
YY18348		1.16	18.7	610	27.0	21.0	<0.001	0.10	0.95	2.3	1.1	0.6	21.3	<0.01	0.08	1.0
YY18349		1.42	24.0	600	75.9	21.6	<0.001	0.10	1.40	3.1	1.2	0.6	23.9	<0.01	0.11	1.5
YY18350		1.24	20.3	560	104.0	23.7	0.001	0.15	1.48	2.6	1.3	0.5	28.4	<0.01	0.13	1.3
YY18351		1.71	14.1	350	27.5	12.4	<0.001	0.04	0.68	2.6	0.6	0.6	13.1	<0.01	0.05	1.7
YY18352		1.60	35.9	660	40.4	35.4	<0.001	0.07	0.92	5.4	1.4	0.6	43.9	0.01	0.13	3.5
YY18353		1.45	39.3	690	77.5	23.7	0.001	0.04	0.91	5.7	0.9	0.5	35.4	0.01	0.09	3.6
YY18354		2.18	40.8	650	27.2	22.5	0.001	0.04	0.73	5.2	1.0	0.6	40.4	0.01	0.13	1.7
YY18355		1.23	35.6	440	14.1	15.4	0.001	0.03	0.60	5.6	0.6	0.5	35.0	<0.01	0.06	2.9
YY18356		1.44	30.7	520	15.5	14.1	<0.001	0.02	0.50	4.6	0.7	0.5	29.4	<0.01	0.08	2.0
YY18357		1.21	26.8	460	24.5	14.7	0.001	0.03	0.58	2.5	0.4	0.5	31.6	0.01	0.07	0.4
YY18358		1.40	23.5	720	31.5	19.7	<0.001	0.03	0.62	3.6	1.2	0.6	27.1	<0.01	0.04	0.8
YY18359		1.49	27.9	710	14.9	17.6	<0.001	0.03	0.46	4.2	0.7	0.6	27.8	<0.01	0.04	1.2
YY18360		2.06	29.2	730	16.8	22.2	<0.001	0.03	0.46	5.4	0.4	0.6	36.5	<0.01	0.08	2.3

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18321		0.096	0.21	3.03	54	2.51	4.75	144	1.6
YY18322		0.085	0.15	1.30	75	1.10	3.48	130	2.8
YY18323		0.085	0.15	4.47	63	0.99	5.98	117	0.9
YY18324		0.104	0.22	2.40	79	0.85	4.09	138	3.0
YY18325		0.087	0.17	4.69	72	0.90	5.52	143	1.0
YY18326		0.100	0.15	1.55	75	1.15	2.95	105	1.3
YY18327		0.086	0.21	4.35	80	6.75	4.93	123	1.6
YY18328		0.060	0.12	2.23	47	5.03	3.55	69	<0.5
YY18329		0.059	0.16	5.88	53	2.68	6.39	74	0.6
YY18330		0.070	0.13	1.62	58	0.29	4.61	54	0.9
YY18331		0.050	0.10	1.90	51	0.32	8.17	66	0.5
YY18332		0.040	0.10	1.86	41	0.98	3.95	195	<0.5
YY18333		0.032	0.10	1.58	35	0.93	2.77	64	0.6
YY18334		0.063	0.18	2.68	43	3.47	3.38	57	0.8
YY18335		0.070	0.13	3.81	49	1.78	3.93	49	0.7
YY18336		0.063	0.11	2.78	53	2.09	3.24	61	0.5
YY18337		0.034	0.12	4.11	39	0.37	3.07	37	<0.5
YY18338		0.073	0.26	1.38	68	0.21	4.14	114	1.1
YY18339		0.055	0.43	1.73	47	0.21	6.51	153	<0.5
YY18340		0.081	0.25	1.36	75	0.21	6.47	97	0.6
YY18341		0.096	0.37	1.37	86	0.19	5.90	138	0.8
YY18342		0.076	0.26	1.59	73	0.21	8.45	115	0.6
YY18343		0.076	0.30	1.59	79	0.21	6.40	124	0.7
YY18344		0.079	0.28	1.36	73	0.19	5.60	96	0.8
YY18345		0.073	0.22	1.43	61	0.17	6.87	80	0.9
YY18346		0.074	0.28	1.35	59	0.18	6.55	76	0.8
YY18347		0.083	0.26	1.10	65	0.21	5.67	83	1.3
YY18348		0.080	0.31	1.22	77	0.17	4.02	80	0.6
YY18349		0.083	0.40	1.36	80	0.20	4.84	101	0.6
YY18350		0.084	0.46	1.19	84	0.18	3.80	100	<0.5
YY18351		0.099	0.23	0.59	86	0.23	2.72	53	1.4
YY18352		0.123	0.59	1.61	87	0.29	8.06	103	1.0
YY18353		0.109	0.38	1.32	94	0.22	8.04	142	2.9
YY18354		0.130	0.38	1.28	117	0.28	5.81	106	1.0
YY18355		0.116	0.24	1.17	87	0.18	7.36	80	1.8
YY18356		0.109	0.23	1.16	85	0.18	5.73	79	1.0
YY18357		0.097	0.22	0.92	75	0.18	3.60	78	0.6
YY18358		0.094	0.28	2.61	61	0.19	4.78	107	0.6
YY18359		0.096	0.22	1.71	73	0.20	6.69	89	0.7
YY18360		0.121	0.28	5.74	81	0.28	9.02	84	1.1

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ATAC RESOURCES LTD.**
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VANCOUVER BC V6B 1L8

Project: CN

Finalized Date: 6-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198419

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18361		0.41	<0.001	0.13	2.66	18.6	<0.02	<10	240	0.69	0.50	0.84	0.25	38.5	8.5	18
YY18362		0.43	0.001	0.19	2.19	22.8	<0.02	<10	210	0.89	0.34	0.52	0.16	39.6	8.1	22
YY18363		0.34	0.001	0.08	2.18	23.6	<0.02	<10	200	0.43	0.54	0.37	0.16	29.3	9.7	27
YY18364		0.37	0.003	0.19	2.36	22.0	<0.02	<10	270	0.65	0.43	0.63	0.16	36.7	8.5	23
YY18365		0.41	0.001	0.11	1.90	20.9	<0.02	<10	170	0.40	0.46	0.32	0.13	29.1	8.9	26
YY18366		0.32	0.003	0.32	2.21	31.0	<0.02	<10	160	0.61	1.20	0.32	0.22	28.3	6.3	25
YY18367		0.40	<0.001	0.15	1.75	42.6	0.04	<10	110	0.39	1.12	0.17	0.24	24.7	5.1	24
YY18368		0.34	0.003	0.18	2.12	42.9	<0.02	<10	120	0.52	1.24	0.20	0.26	27.8	7.3	26
YY18369		0.33	0.002	0.13	2.15	62.4	<0.02	<10	160	0.49	1.57	0.18	0.27	27.0	6.9	28
YY18370		0.33	0.001	0.12	1.86	22.1	<0.02	<10	150	0.49	1.32	0.26	0.21	30.3	7.2	27
YY18371		0.33	0.002	0.24	1.84	122.0	<0.02	<10	170	0.53	0.97	0.26	0.46	29.3	6.9	27
YY18372		0.36	0.002	0.19	1.98	25.7	<0.02	<10	190	0.69	0.96	0.32	0.29	35.5	8.1	28
YY18373		0.39	0.003	0.22	1.68	51.5	<0.02	<10	140	0.56	3.57	0.38	0.53	39.1	6.9	24
YY18374		0.45	<0.001	0.75	1.38	65.2	<0.02	<10	120	0.43	1.12	0.43	0.53	39.4	5.9	20
YY18375		0.40	0.005	0.47	1.86	121.0	<0.02	<10	140	0.67	0.83	0.69	0.46	36.2	5.9	19
YY18376		0.42	0.004	0.22	1.70	60.9	<0.02	<10	200	0.47	0.70	0.37	0.39	36.9	8.8	29
YY18377		0.33	0.001	0.11	1.86	20.4	<0.02	<10	200	0.41	0.32	0.26	0.19	29.5	7.0	29
YY18378		0.34	0.005	0.28	1.73	35.0	<0.02	<10	170	0.47	0.41	0.25	0.30	27.6	6.2	24
YY18379		0.40	0.004	0.08	1.50	40.7	<0.02	<10	160	0.47	0.40	0.39	0.26	34.1	7.9	24
YY18380		0.41	0.006	0.13	2.03	46.0	<0.02	<10	160	0.46	0.58	0.30	0.32	28.6	10.8	29
YY18381		0.40	0.002	0.21	2.28	37.8	<0.02	<10	140	0.83	2.14	0.69	0.28	35.4	6.9	17
YY18382		0.40	0.003	0.29	1.64	22.0	<0.02	<10	130	0.61	1.88	0.28	0.28	27.7	5.6	18
YY18383		0.36	0.004	0.27	1.50	22.2	<0.02	<10	120	0.54	1.41	0.30	0.26	26.1	4.8	17
YY18384		0.43	0.002	0.13	1.72	29.1	<0.02	<10	120	0.42	0.97	0.30	0.24	27.5	5.7	24
YY18385		0.46	0.002	0.14	1.72	28.1	0.04	<10	130	0.43	0.97	0.31	0.23	30.2	6.9	22
YY18386		0.41	<0.001	0.16	1.77	34.4	<0.02	<10	140	0.47	1.10	0.27	0.24	27.3	6.0	23
YY18387		0.61	0.002	0.28	1.46	37.3	<0.02	<10	140	0.39	1.46	0.37	0.24	37.0	6.8	20
YY18388		0.50	0.004	0.86	2.34	35.0	<0.02	<10	210	0.50	2.01	0.33	0.26	33.6	6.2	27
YY18389		0.45	0.004	1.15	2.13	80.3	<0.02	<10	220	0.51	1.72	0.39	0.41	35.3	7.6	25
YY18390		0.44	0.003	0.98	1.96	51.7	<0.02	<10	180	0.45	1.60	0.41	0.22	28.7	4.7	26
YY18391		0.49	0.002	0.82	2.34	85.2	<0.02	<10	260	1.27	2.13	0.58	0.78	57.5	10.8	25
YY18392		0.46	0.082	5.33	2.15	650	0.06	<10	140	0.79	4.75	0.35	1.05	37.7	8.9	24
YY18393		0.42	0.005	1.90	1.62	106.5	<0.02	<10	110	0.59	0.52	0.23	0.56	23.7	5.1	16
YY18394		0.29	0.005	0.40	1.43	87.0	<0.02	<10	80	0.68	0.35	0.25	0.47	25.4	4.7	15
YY18395		0.51	<0.001	0.14	2.62	131.5	<0.02	<10	120	1.15	0.42	0.36	0.54	36.5	7.6	23
YY18396		0.49	0.002	0.52	2.39	17.1	<0.02	<10	120	0.58	0.54	0.17	0.39	23.3	8.0	26
YY18397		0.39	0.004	0.53	1.97	37.0	<0.02	<10	90	0.50	0.75	0.18	0.45	23.6	5.3	18
YY18398		0.47	0.012	0.71	2.33	93.8	<0.02	<10	260	0.50	0.47	0.30	0.41	23.1	9.6	55
YY18399		0.38	0.002	0.24	1.73	28.1	<0.02	<10	100	0.29	0.25	0.12	0.25	22.1	5.0	30
YY18400		0.46	0.003	0.18	1.88	29.5	<0.02	<10	150	0.44	0.24	0.19	0.43	25.9	7.8	37

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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VANCOUVER BC V6B 1L8

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18361		4.85	18.5	3.10	8.98	0.08	0.03	0.02	0.018	0.23	20.4	23.0	0.60	384	1.47	0.01
YY18362		3.13	15.4	3.41	7.53	0.05	0.02	0.04	0.032	0.10	21.0	18.5	0.53	646	1.81	0.01
YY18363		2.22	14.6	3.61	8.19	0.07	0.03	0.02	0.023	0.07	15.2	21.3	0.53	408	1.94	0.01
YY18364		3.13	17.2	3.38	8.79	0.08	0.02	0.03	0.026	0.10	18.5	21.5	0.55	368	1.75	0.01
YY18365		1.61	17.2	2.85	6.71	0.07	0.02	0.02	0.026	0.06	14.2	15.8	0.48	356	1.24	0.01
YY18366		2.61	28.7	2.68	8.36	0.06	0.02	0.04	0.028	0.06	16.2	19.0	0.49	225	2.48	<0.01
YY18367		1.57	19.8	2.51	9.77	<0.05	0.02	0.03	0.026	0.06	14.0	11.2	0.39	239	2.35	<0.01
YY18368		1.77	23.4	2.94	8.04	0.06	<0.02	0.02	0.025	0.06	13.8	14.9	0.46	339	2.11	<0.01
YY18369		2.31	30.1	3.03	9.16	0.06	0.03	0.03	0.026	0.06	14.1	13.3	0.43	338	6.16	<0.01
YY18370		1.51	23.4	2.50	6.48	0.06	0.02	0.02	0.023	0.06	16.5	13.3	0.46	327	1.78	0.01
YY18371		1.53	20.2	2.59	6.81	0.06	0.03	0.02	0.068	0.06	17.4	14.1	0.43	307	3.32	<0.01
YY18372		1.89	23.7	2.74	6.93	0.06	0.05	0.01	0.027	0.05	20.8	16.4	0.51	320	2.75	0.01
YY18373		2.07	23.8	2.56	6.16	0.06	0.05	0.01	0.029	0.06	23.6	16.1	0.48	361	4.04	0.01
YY18374		2.00	20.3	2.33	5.83	0.06	0.03	0.03	0.025	0.05	25.5	17.8	0.45	313	25.3	0.01
YY18375		4.21	34.9	2.48	7.84	0.06	0.02	0.01	0.031	0.09	23.6	20.3	0.50	317	49.6	0.01
YY18376		1.28	22.8	3.15	6.17	0.07	0.05	0.02	0.028	0.06	21.2	13.5	0.49	402	6.51	0.01
YY18377		1.02	19.3	2.58	6.05	0.05	0.02	0.03	0.023	0.05	16.4	12.5	0.48	256	8.42	0.01
YY18378		1.44	22.8	2.58	6.12	<0.05	0.02	0.03	0.026	0.05	15.7	14.2	0.43	249	12.00	<0.01
YY18379		1.20	20.5	2.72	5.11	0.06	0.04	0.01	0.024	0.05	19.1	12.8	0.45	354	3.37	0.01
YY18380		1.28	20.8	3.15	6.55	0.05	0.03	0.02	0.029	0.05	15.1	17.6	0.49	467	10.15	0.01
YY18381		3.71	26.7	2.90	8.99	0.06	0.02	0.02	0.022	0.10	23.4	18.3	0.43	331	4.45	0.01
YY18382		1.84	30.8	2.26	7.42	0.05	0.02	0.02	0.023	0.06	16.7	14.2	0.35	230	5.97	0.01
YY18383		2.02	25.0	2.10	7.40	0.06	0.02	0.02	0.021	0.06	16.0	16.3	0.33	221	7.77	0.01
YY18384		1.49	17.9	3.08	8.25	<0.05	0.02	0.02	0.024	0.06	16.7	13.7	0.45	264	2.48	<0.01
YY18385		1.39	18.1	2.91	6.59	0.06	0.02	0.02	0.021	0.05	18.4	15.2	0.42	321	3.72	<0.01
YY18386		1.76	24.2	2.50	6.81	0.05	0.02	0.03	0.022	0.07	15.7	13.5	0.44	249	3.59	0.01
YY18387		2.42	28.1	2.63	6.29	0.07	0.02	0.02	0.022	0.07	23.0	15.5	0.45	321	9.97	0.01
YY18388		2.49	24.2	2.45	8.20	0.05	0.02	0.05	0.030	0.07	20.1	22.0	0.46	219	23.5	0.01
YY18389		2.34	22.5	2.70	7.87	0.06	0.02	0.04	0.033	0.06	21.4	19.1	0.47	483	13.10	0.01
YY18390		2.42	24.7	1.99	6.88	0.05	<0.02	0.06	0.023	0.05	18.5	21.3	0.47	145	7.30	0.01
YY18391		2.92	61.5	2.35	6.96	0.08	0.02	0.09	0.034	0.05	36.5	30.4	0.45	482	7.80	0.02
YY18392		4.41	118.5	3.25	7.84	0.07	<0.02	0.03	0.069	0.10	23.0	20.2	0.49	434	16.35	0.01
YY18393		2.93	44.5	2.02	6.83	<0.05	<0.02	0.06	0.022	0.05	16.1	10.3	0.27	165	15.95	0.01
YY18394		3.15	28.5	2.04	6.94	<0.05	<0.02	0.02	0.023	0.07	15.6	12.6	0.30	264	13.00	0.01
YY18395		4.65	23.3	3.20	10.35	0.05	0.03	0.04	0.040	0.07	23.3	23.1	0.49	336	15.15	0.01
YY18396		3.66	24.5	3.25	9.52	<0.05	0.03	0.04	0.038	0.07	12.9	19.2	0.39	325	7.62	<0.01
YY18397		3.23	20.6	2.65	9.38	<0.05	0.04	0.03	0.021	0.05	13.7	16.1	0.31	225	11.20	0.01
YY18398		2.60	37.8	2.97	8.60	0.06	<0.02	0.04	0.038	0.11	12.2	19.0	0.74	602	3.64	0.01
YY18399		1.55	17.9	2.50	6.31	<0.05	<0.02	0.03	0.034	0.06	12.4	11.9	0.35	225	1.29	0.01
YY18400		1.52	26.2	2.67	6.23	0.05	<0.02	0.03	0.033	0.07	14.6	16.4	0.52	361	1.33	0.02

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18361		2.85	18.8	950	15.1	38.0	<0.001	0.01	0.26	3.5	0.2	0.7	118.5	0.02	0.02	14.4
YY18362		1.59	12.5	1100	12.7	16.9	<0.001	0.03	0.34	4.1	0.5	0.7	65.6	0.01	0.04	3.8
YY18363		2.12	16.1	690	17.8	15.5	<0.001	0.01	0.36	3.4	0.4	0.6	42.4	<0.01	0.04	5.6
YY18364		2.16	14.1	990	23.2	19.7	<0.001	0.02	0.30	3.8	0.3	0.6	84.1	0.01	0.03	5.9
YY18365		1.51	17.0	710	16.8	12.2	<0.001	0.01	0.43	2.9	0.3	0.5	34.0	<0.01	0.03	2.9
YY18366		1.11	14.7	610	26.6	13.1	<0.001	0.02	0.42	2.5	0.5	0.5	43.6	<0.01	0.02	1.0
YY18367		1.26	12.5	430	64.3	12.0	<0.001	0.02	0.39	2.4	0.4	0.7	33.0	<0.01	0.03	1.4
YY18368		1.05	15.8	610	51.7	11.1	<0.001	0.01	0.41	2.5	0.3	0.6	28.9	<0.01	0.02	1.4
YY18369		1.62	15.8	450	40.5	13.0	<0.001	0.02	0.51	3.0	0.3	0.7	45.0	<0.01	0.04	3.5
YY18370		1.12	18.0	510	26.4	9.3	<0.001	0.01	0.43	2.6	0.3	0.5	44.9	<0.01	0.02	1.6
YY18371		1.83	16.7	490	168.5	10.5	<0.001	0.02	0.38	2.7	0.3	0.5	45.5	<0.01	0.04	3.1
YY18372		1.85	20.7	450	34.3	10.3	<0.001	0.01	0.35	3.5	<0.2	0.6	52.9	<0.01	0.02	7.4
YY18373		1.58	14.2	560	92.1	11.4	<0.001	0.01	0.47	3.0	<0.2	0.5	66.4	<0.01	0.04	8.0
YY18374		1.69	11.9	650	77.1	11.0	<0.001	0.01	0.43	2.7	0.4	0.5	65.5	<0.01	0.03	8.4
YY18375		1.73	11.0	770	160.0	13.9	<0.001	0.02	1.14	3.1	0.3	0.5	110.5	0.01	0.02	8.8
YY18376		1.57	19.1	690	54.4	8.7	<0.001	0.01	0.92	3.4	0.3	0.5	55.1	<0.01	0.03	7.1
YY18377		1.18	17.9	470	20.1	8.5	<0.001	0.01	0.36	3.4	0.3	0.5	34.8	<0.01	0.02	2.8
YY18378		1.12	13.7	550	39.7	10.5	<0.001	0.02	0.40	2.5	0.3	0.5	36.6	<0.01	0.02	2.3
YY18379		1.11	15.1	710	50.7	7.7	0.001	0.01	0.54	3.0	0.4	0.5	56.9	<0.01	0.02	7.0
YY18380		1.52	18.0	600	56.0	9.3	<0.001	0.01	0.59	3.0	0.5	0.6	39.9	<0.01	0.03	5.4
YY18381		1.72	12.0	920	48.4	15.7	<0.001	0.02	0.37	2.7	0.4	0.5	80.1	0.01	0.05	6.7
YY18382		1.33	10.4	550	22.4	13.6	<0.001	0.02	0.30	2.2	0.4	0.5	46.1	<0.01	0.03	2.8
YY18383		1.28	9.9	470	20.9	14.2	<0.001	0.02	0.33	2.0	0.3	0.5	50.4	<0.01	0.04	1.8
YY18384		1.36	12.9	630	28.9	11.2	<0.001	0.02	0.34	2.2	0.2	0.6	36.9	<0.01	0.03	3.6
YY18385		1.23	13.0	760	28.4	8.5	<0.001	0.02	0.36	2.5	0.4	0.5	36.9	<0.01	0.02	4.0
YY18386		1.21	13.1	540	31.8	14.2	<0.001	0.02	0.36	2.5	0.4	0.5	40.1	<0.01	0.03	3.0
YY18387		1.58	11.0	800	36.1	15.1	<0.001	0.02	0.39	2.8	0.2	0.6	60.1	<0.01	0.02	7.8
YY18388		1.34	15.2	710	45.7	16.1	0.001	0.04	0.39	3.3	0.5	0.6	49.9	<0.01	0.02	2.8
YY18389		1.54	14.6	800	117.0	14.2	0.001	0.04	0.68	3.2	0.5	0.5	57.2	<0.01	0.04	4.8
YY18390		1.18	15.9	800	51.5	10.4	0.001	0.05	0.38	2.6	0.6	0.5	48.2	<0.01	0.02	1.6
YY18391		1.02	23.0	870	75.7	9.5	0.001	0.08	0.54	2.8	2.0	0.5	59.9	<0.01	0.04	1.5
YY18392		1.24	16.7	810	511	24.3	<0.001	0.05	7.82	3.2	0.5	0.6	55.8	<0.01	0.09	4.2
YY18393		0.84	9.1	540	114.5	13.6	<0.001	0.04	1.08	1.4	0.6	0.5	40.2	<0.01	0.04	0.4
YY18394		0.81	7.8	580	65.6	15.3	0.001	0.03	0.76	1.5	0.4	0.5	38.3	<0.01	0.04	1.0
YY18395		1.82	13.7	560	203	17.0	<0.001	0.02	0.56	3.6	0.3	0.7	56.7	0.01	0.04	11.3
YY18396		2.37	14.1	370	42.8	18.6	<0.001	0.02	0.48	3.3	0.3	0.8	25.6	0.01	0.05	6.4
YY18397		1.95	9.9	320	113.5	12.6	<0.001	0.02	0.85	2.5	0.3	0.7	26.1	0.01	0.05	7.0
YY18398		1.24	29.7	600	91.6	15.6	<0.001	0.03	0.66	4.0	0.6	0.5	39.7	<0.01	0.05	0.7
YY18399		1.14	15.2	490	48.2	10.4	<0.001	0.02	0.43	2.2	0.5	0.5	16.2	<0.01	0.05	0.7
YY18400		1.15	25.1	530	65.0	11.5	<0.001	0.02	0.59	2.8	0.4	0.4	19.2	<0.01	0.05	0.9

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 6-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198419

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18361		0.173	0.27	3.82	69	0.32	8.01	112	1.3
YY18362		0.092	0.18	4.18	80	0.28	9.97	59	0.7
YY18363		0.120	0.16	1.71	89	0.64	5.07	64	1.1
YY18364		0.122	0.18	2.58	81	0.32	7.08	63	0.9
YY18365		0.101	0.12	1.50	67	0.28	4.84	60	0.9
YY18366		0.078	0.19	2.05	60	0.69	4.86	71	<0.5
YY18367		0.083	0.14	1.03	64	0.45	3.30	76	0.6
YY18368		0.080	0.16	1.42	64	0.55	3.61	76	0.5
YY18369		0.098	0.19	1.84	69	1.88	3.47	82	1.0
YY18370		0.084	0.09	1.28	55	0.65	4.53	67	0.7
YY18371		0.104	0.11	2.46	58	1.16	3.87	84	1.2
YY18372		0.107	0.11	2.97	60	0.36	4.80	69	1.9
YY18373		0.108	0.12	2.33	56	1.66	4.06	111	1.8
YY18374		0.091	0.10	3.02	50	4.68	3.89	104	1.1
YY18375		0.102	0.16	2.87	51	3.00	3.98	104	1.1
YY18376		0.107	0.10	1.42	67	0.58	4.97	75	1.5
YY18377		0.093	0.09	1.52	59	0.54	4.88	59	0.9
YY18378		0.079	0.10	1.99	59	2.25	3.98	70	0.6
YY18379		0.091	0.09	1.91	60	2.79	5.52	69	1.7
YY18380		0.090	0.11	1.78	66	0.99	4.35	84	1.3
YY18381		0.079	0.21	2.24	60	3.29	4.29	83	0.6
YY18382		0.079	0.12	2.61	53	4.34	3.72	53	0.6
YY18383		0.077	0.13	3.41	50	6.03	3.99	50	0.6
YY18384		0.098	0.12	1.57	76	1.51	3.98	67	0.7
YY18385		0.085	0.10	1.55	66	0.71	4.09	65	0.7
YY18386		0.086	0.14	2.20	55	3.86	3.81	67	0.8
YY18387		0.098	0.16	2.94	58	3.93	4.51	68	0.8
YY18388		0.076	0.16	5.44	53	1.79	4.72	84	0.7
YY18389		0.091	0.16	2.72	56	0.87	4.42	106	0.9
YY18390		0.075	0.20	6.86	43	1.73	4.29	94	0.5
YY18391		0.060	0.28	13.65	45	1.55	16.70	125	0.5
YY18392		0.075	0.25	5.38	60	6.12	4.95	157	<0.5
YY18393		0.051	0.17	2.96	43	3.61	3.61	88	<0.5
YY18394		0.061	0.12	2.36	44	4.25	2.50	68	<0.5
YY18395		0.094	0.26	2.09	63	4.30	3.49	123	1.3
YY18396		0.110	0.23	1.61	73	3.66	2.89	70	1.4
YY18397		0.097	0.18	1.48	62	3.83	2.45	57	2.0
YY18398		0.107	0.21	1.15	88	0.26	5.25	131	0.6
YY18399		0.065	0.18	0.71	65	0.21	2.93	64	0.5
YY18400		0.077	0.17	0.97	66	0.22	4.38	106	0.6

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Project: CN

Finalized Date: 6-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198419

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

LABORATORY ADDRESSES

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

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

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Finalized Date: 5-SEP-2019
Account: RCM

CERTIFICATE WH19198425

Project: CN

This report is for 195 Soil samples submitted to our lab in Whitehorse, YT, Canada on 10-AUG-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE	

SAMPLE PREPARATION

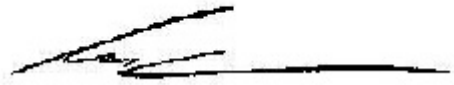
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

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

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

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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CERTIFICATE OF ANALYSIS WH19198425

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18401		0.44	0.002	0.25	1.95	18.9	<0.02	<10	230	0.43	0.18	0.26	0.43	22.7	10.0	54
YY18402		0.39	0.005	0.15	1.99	14.8	<0.02	<10	180	0.51	0.20	0.23	0.39	21.4	9.0	49
YY18403		0.47	0.002	0.08	2.02	8.8	<0.02	<10	220	0.55	0.14	0.29	0.23	23.5	9.5	46
YY18404		0.47	0.002	0.09	2.62	31.8	<0.02	<10	100	0.45	0.22	0.09	0.36	21.6	8.6	35
YY18405		0.45	0.001	0.03	1.77	30.2	<0.02	<10	120	0.38	0.28	0.10	0.22	27.0	5.6	40
YY18406		0.43	0.011	0.66	3.51	136.0	<0.02	<10	300	0.61	0.63	0.30	0.52	17.80	14.2	88
YY18407		0.50	0.001	0.06	3.31	47.4	<0.02	<10	300	0.66	0.20	0.34	0.54	21.1	15.8	70
YY18408		0.46	0.003	0.29	2.50	77.5	<0.02	<10	170	0.95	0.53	0.55	0.49	31.7	8.0	23
YY18409		0.48	0.003	2.79	2.17	34.1	<0.02	<10	110	1.18	1.17	0.74	0.58	37.1	4.8	16
YY18410		0.50	0.005	0.17	2.38	34.7	<0.02	<10	140	1.06	0.68	0.28	0.29	29.5	7.6	23
YY18411		0.54	0.002	0.38	2.78	93.4	<0.02	<10	140	1.22	0.49	0.45	0.79	37.5	6.0	13
YY18412		0.48	0.004	2.60	2.99	288	<0.02	<10	120	1.16	0.62	0.19	0.71	43.5	10.2	27
YY18413		0.47	0.017	1.17	1.91	393	<0.02	<10	110	1.08	0.88	0.30	2.43	36.1	8.4	19
YY18414		0.53	0.003	0.16	2.23	53.1	<0.02	<10	120	0.65	0.47	0.22	0.55	28.2	9.9	27
YY18415		0.52	0.001	0.17	2.27	16.3	<0.02	<10	110	0.85	1.00	0.30	0.39	28.2	9.7	22
YY18416		0.39	0.003	0.14	1.94	11.4	<0.02	<10	130	0.72	0.61	0.24	0.31	27.0	7.1	21
YY18417		0.44	0.009	0.57	1.78	162.5	<0.02	<10	120	0.93	0.79	0.31	1.11	33.1	7.8	18
YY18418		0.50	0.002	0.64	2.06	69.2	<0.02	<10	120	1.08	1.11	0.41	0.67	33.9	7.3	17
YY18419		0.55	0.004	0.80	2.31	46.8	<0.02	<10	150	1.20	1.69	0.37	0.59	46.1	12.0	24
YY18420		0.40	0.001	0.27	2.30	17.9	<0.02	<10	140	1.04	0.68	0.46	0.24	25.3	6.5	17
YY18421		0.39	0.001	0.52	2.46	19.9	<0.02	<10	140	1.21	1.51	0.91	0.35	32.0	7.0	10
YY18422		0.36	<0.001	1.33	2.37	23.2	<0.02	<10	130	1.51	13.70	0.77	0.71	31.8	5.7	13
YY18423		0.38	0.006	1.64	2.54	88.1	<0.02	<10	200	1.43	6.17	0.85	1.10	42.1	9.4	22
YY18424		0.42	<0.001	0.29	1.84	21.7	<0.02	<10	170	0.45	6.29	0.35	0.38	28.3	7.6	20
YY18425		0.50	0.005	0.20	2.06	26.4	<0.02	<10	200	0.80	6.58	0.38	0.16	36.0	10.6	27
YY18426		0.51	0.002	0.09	1.97	12.6	<0.02	<10	180	0.67	1.49	0.36	0.19	36.9	10.8	26
YY18427		0.49	0.002	0.10	2.58	11.7	<0.02	<10	160	0.89	2.54	0.49	0.19	32.6	10.6	26
YY18428		0.46	0.001	0.23	2.75	12.8	<0.02	<10	160	1.30	2.38	0.76	0.14	36.1	7.1	20
YY18429		0.47	0.001	0.13	1.88	12.5	<0.02	<10	120	0.76	1.77	0.64	0.19	33.6	5.7	17
YY18430		0.50	<0.001	0.22	2.46	27.4	<0.02	<10	120	1.06	3.73	0.78	0.20	36.0	7.3	16
YY18431		0.37	<0.001	0.06	2.92	28.6	0.02	<10	100	1.06	8.34	0.73	0.20	33.1	6.6	15
YY18432		0.37	<0.001	0.15	2.04	15.3	<0.02	<10	110	0.67	3.46	0.39	0.15	26.0	5.7	16
YY18433		0.36	0.001	0.32	1.10	10.0	<0.02	<10	90	0.41	6.87	0.17	0.20	20.9	3.3	12
YY18434		0.41	0.002	0.17	1.80	9.8	<0.02	<10	120	0.56	3.40	0.20	0.17	24.5	6.8	21
YY18435		0.42	0.001	0.13	1.76	8.9	<0.02	<10	130	0.52	2.24	0.22	0.16	28.3	7.7	21
YY18436		0.38	0.006	0.29	2.56	13.7	<0.02	<10	170	0.66	1.38	0.23	0.25	29.6	12.0	32
YY18437		0.48	0.003	0.17	2.11	11.7	<0.02	<10	170	0.58	1.57	0.25	0.18	32.5	7.5	29
YY18438		0.34	0.003	0.37	2.41	24.6	<0.02	<10	180	0.84	4.23	0.34	0.35	37.6	9.0	24
YY18439		0.42	0.003	0.18	2.01	13.4	<0.02	<10	150	0.49	1.56	0.24	0.25	28.9	8.3	27
YY18440		0.51	0.002	0.58	2.29	47.9	<0.02	<10	180	1.26	7.70	0.43	0.68	53.4	6.7	17

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CERTIFICATE OF ANALYSIS WH19198425

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18401		1.47	32.4	2.37	5.65	0.06	0.02	0.06	0.027	0.07	11.9	14.8	0.64	322	1.24	0.02
YY18402		1.74	28.3	2.43	6.64	0.06	<0.02	0.03	0.031	0.07	11.4	16.2	0.56	358	1.38	0.01
YY18403		1.93	26.0	2.50	6.57	0.06	0.02	0.19	0.025	0.10	12.3	16.5	0.67	311	0.73	0.02
YY18404		1.91	17.8	3.77	7.69	0.06	0.06	0.02	0.032	0.05	10.9	18.4	0.35	301	1.71	0.01
YY18405		2.60	24.5	2.74	8.72	0.06	<0.02	0.01	0.037	0.07	14.4	12.2	0.37	307	1.41	0.01
YY18406		4.08	34.9	3.74	9.48	0.06	0.04	0.03	0.041	0.17	8.6	23.1	1.11	459	1.12	0.02
YY18407		3.90	22.6	3.57	9.36	0.05	0.03	0.03	0.045	0.16	9.2	23.2	0.92	579	1.32	0.02
YY18408		3.55	22.9	3.01	9.74	0.06	<0.02	0.03	0.036	0.09	18.1	18.4	0.53	474	6.69	0.01
YY18409		4.67	25.7	2.39	10.55	0.07	<0.02	0.04	0.032	0.07	24.5	17.4	0.46	199	12.05	0.02
YY18410		3.75	62.8	3.46	8.86	0.05	0.07	0.03	0.033	0.08	18.8	24.7	0.52	308	11.05	0.01
YY18411		5.46	43.2	3.62	10.05	0.05	0.09	0.02	0.031	0.08	21.4	34.2	0.53	373	11.45	0.02
YY18412		6.28	80.2	3.95	9.73	0.07	0.13	0.06	0.052	0.12	28.1	26.6	0.64	331	18.60	0.02
YY18413		3.72	126.0	2.81	6.78	0.07	0.02	0.02	0.037	0.09	22.7	18.2	0.42	429	19.90	0.01
YY18414		2.38	37.5	3.35	6.70	0.05	0.08	0.02	0.034	0.06	16.7	19.2	0.45	373	16.80	0.01
YY18415		3.93	32.8	3.28	8.64	0.05	0.03	0.02	0.026	0.06	16.6	20.0	0.39	415	16.95	0.02
YY18416		2.56	45.3	2.54	7.41	0.06	0.02	0.02	0.022	0.06	16.0	15.8	0.38	271	14.85	0.01
YY18417		3.35	66.3	2.56	6.49	0.06	0.02	0.02	0.056	0.07	21.9	20.4	0.40	337	21.9	0.02
YY18418		3.69	58.4	2.63	7.63	0.05	<0.02	0.03	0.034	0.07	23.0	20.5	0.40	428	37.8	0.02
YY18419		3.96	65.5	3.15	7.37	0.06	0.02	0.05	0.036	0.07	27.8	23.6	0.51	457	20.9	0.02
YY18420		4.44	13.3	2.40	7.53	<0.05	<0.02	0.04	0.025	0.08	15.4	20.4	0.34	364	8.75	0.02
YY18421		3.89	27.5	2.15	7.62	<0.05	<0.02	0.09	0.020	0.13	24.1	18.2	0.49	452	29.8	0.02
YY18422		3.38	64.2	2.04	7.73	<0.05	<0.02	0.09	0.041	0.11	23.4	17.5	0.33	335	19.80	0.02
YY18423		3.70	60.0	2.17	7.52	0.06	<0.02	0.05	0.046	0.09	24.8	34.0	0.49	316	12.25	0.02
YY18424		2.17	39.3	3.03	8.48	<0.05	0.02	0.03	0.031	0.08	16.7	17.0	0.38	609	2.35	0.01
YY18425		1.96	74.1	2.89	6.22	0.05	0.05	0.02	0.040	0.05	19.8	20.0	0.55	368	1.65	0.02
YY18426		2.22	31.5	3.12	6.46	0.05	0.03	0.03	0.024	0.07	20.4	18.3	0.54	346	3.02	0.02
YY18427		3.23	41.5	3.19	7.71	0.05	0.03	0.02	0.027	0.08	18.7	20.6	0.55	361	3.17	0.02
YY18428		4.54	38.0	3.03	9.40	0.05	<0.02	0.03	0.031	0.09	23.5	19.5	0.45	262	2.71	0.02
YY18429		3.30	22.6	2.55	6.75	0.05	<0.02	0.03	0.021	0.07	21.4	16.4	0.44	221	1.63	0.03
YY18430		4.63	32.4	3.09	8.55	0.05	0.02	0.02	0.025	0.09	24.6	23.4	0.47	309	2.34	0.03
YY18431		7.28	67.0	3.62	10.95	0.06	0.02	0.02	0.032	0.13	23.7	24.0	0.54	319	3.79	0.02
YY18432		4.48	37.9	2.96	9.02	0.05	<0.02	0.02	0.022	0.09	16.3	18.5	0.46	267	5.89	0.02
YY18433		2.10	38.9	1.81	5.60	<0.05	<0.02	0.04	0.020	0.07	12.8	7.2	0.23	157	4.92	0.02
YY18434		2.97	31.7	2.46	7.33	<0.05	0.02	0.03	0.022	0.06	14.1	14.0	0.37	281	4.63	0.02
YY18435		2.05	26.5	2.48	5.93	<0.05	<0.02	0.02	0.021	0.06	16.6	14.1	0.40	310	3.53	0.02
YY18436		1.79	31.2	3.48	6.99	<0.05	0.05	0.03	0.032	0.07	15.6	23.4	0.57	403	5.12	0.02
YY18437		1.89	44.7	3.03	6.79	<0.05	0.03	0.02	0.026	0.06	18.6	19.9	0.49	254	6.52	0.02
YY18438		3.39	93.1	3.58	8.49	0.05	0.04	0.03	0.029	0.08	23.7	22.6	0.48	337	17.55	0.02
YY18439		1.67	40.2	3.00	6.73	<0.05	0.02	0.04	0.028	0.06	15.7	17.9	0.45	331	6.18	0.02
YY18440		3.87	79.2	3.49	8.33	0.06	<0.02	0.03	0.049	0.09	37.3	24.6	0.50	652	40.0	0.02

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Project: CN

Finalized Date: 5-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198425

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18401		0.96	48.0	520	47.5	9.5	0.001	0.02	0.48	3.4	0.5	0.4	23.7	<0.01	0.01	1.1
YY18402		0.92	35.2	490	41.3	10.6	<0.001	0.03	0.51	2.6	0.6	0.4	22.2	<0.01	0.03	0.5
YY18403		1.31	33.1	520	22.3	14.3	<0.001	0.02	0.39	4.0	0.3	0.5	25.8	<0.01	0.01	1.4
YY18404		1.92	21.7	390	55.2	9.9	<0.001	0.02	0.80	3.4	0.4	0.6	10.4	0.01	0.04	2.7
YY18405		1.23	19.9	380	100.0	10.9	0.001	0.02	0.50	2.7	0.7	0.6	15.8	<0.01	0.05	0.7
YY18406		2.15	47.3	430	429	21.0	<0.001	0.02	1.49	7.4	0.6	0.6	51.2	<0.01	0.03	1.9
YY18407		2.24	31.8	470	53.1	22.0	<0.001	0.02	0.64	6.4	0.8	0.4	80.6	0.01	0.03	2.0
YY18408		1.35	18.0	880	82.9	15.2	0.001	0.02	0.58	3.1	0.5	0.6	97.5	<0.01	0.02	2.6
YY18409		1.32	10.3	1010	250	16.2	0.001	0.03	1.77	2.8	0.4	0.6	88.6	<0.01	0.02	4.2
YY18410		1.77	16.2	660	68.6	20.1	0.001	0.01	0.63	4.2	0.3	0.7	41.1	0.01	0.02	9.5
YY18411		1.79	11.9	1050	56.8	20.9	0.001	0.02	0.76	3.6	0.7	0.7	145.0	0.01	0.02	25.9
YY18412		2.04	18.3	380	499	37.8	<0.001	0.03	2.46	5.9	1.0	0.9	59.2	0.01	0.02	15.5
YY18413		1.08	13.8	810	116.5	25.5	0.001	0.03	1.54	2.8	0.6	0.5	61.7	<0.01	0.04	4.5
YY18414		1.38	18.2	640	61.7	13.8	<0.001	0.02	0.76	3.5	0.4	0.6	31.1	<0.01	0.04	7.2
YY18415		1.64	14.9	520	44.7	15.0	<0.001	0.02	0.73	3.4	0.8	0.6	63.6	0.01	0.06	9.2
YY18416		0.93	13.5	580	25.3	15.0	0.001	0.02	0.47	2.1	0.4	0.6	48.0	<0.01	0.05	1.1
YY18417		0.91	12.8	670	192.0	20.1	0.001	0.03	1.06	2.6	0.7	0.5	65.4	<0.01	0.06	2.3
YY18418		1.07	10.3	740	130.0	19.1	<0.001	0.01	0.84	2.6	0.3	0.5	85.3	<0.01	0.09	4.2
YY18419		1.31	16.5	670	107.0	20.2	<0.001	0.01	0.59	4.0	0.3	0.5	69.7	<0.01	0.17	9.1
YY18420		1.39	11.2	670	32.9	14.3	<0.001	0.01	0.41	2.3	0.3	0.5	102.0	0.01	0.05	5.3
YY18421		1.14	6.4	980	39.7	22.1	<0.001	0.03	0.29	2.3	0.5	0.4	188.0	<0.01	0.06	8.4
YY18422		1.00	8.4	830	59.2	17.3	<0.001	0.04	0.56	2.2	0.4	0.4	155.5	0.01	0.09	3.3
YY18423		1.04	16.6	830	133.5	17.7	0.001	0.08	0.71	2.9	0.7	0.5	105.0	<0.01	0.06	2.3
YY18424		1.62	12.1	940	34.7	18.5	<0.001	0.01	0.46	2.4	0.2	0.6	78.9	<0.01	0.09	3.3
YY18425		1.29	18.3	500	53.5	10.4	<0.001	<0.01	0.50	4.2	0.4	0.6	51.5	0.01	0.04	6.2
YY18426		1.42	18.9	780	19.2	13.3	<0.001	0.02	0.44	3.9	0.4	0.6	82.6	<0.01	0.04	6.5
YY18427		1.69	17.6	750	25.6	14.7	<0.001	0.01	0.38	3.9	0.4	0.6	109.0	0.01	0.04	8.1
YY18428		1.28	12.3	1040	31.0	15.1	<0.001	0.01	0.38	3.2	0.3	0.6	124.5	0.01	0.04	3.2
YY18429		1.16	10.1	970	38.9	12.6	<0.001	0.01	0.31	2.3	0.4	0.5	127.0	0.01	0.04	3.9
YY18430		1.45	10.2	1220	56.0	16.6	<0.001	0.01	0.31	2.8	0.3	0.5	169.5	0.01	0.05	11.6
YY18431		1.65	8.0	1200	48.6	24.5	<0.001	0.02	0.33	2.4	0.3	0.7	140.5	0.01	0.07	10.9
YY18432		1.55	10.1	740	23.9	17.3	<0.001	0.02	0.34	2.2	0.5	0.6	103.5	0.01	0.07	4.1
YY18433		1.06	6.7	400	25.8	13.6	<0.001	0.02	0.31	1.0	0.4	0.6	50.7	<0.01	0.05	1.6
YY18434		1.09	12.3	590	22.9	16.8	<0.001	0.01	0.34	2.0	0.3	0.6	42.4	<0.01	0.04	1.5
YY18435		1.24	13.6	640	18.1	14.6	<0.001	0.01	0.35	2.5	0.4	0.5	35.1	<0.01	0.04	3.4
YY18436		1.67	24.8	590	17.5	15.4	<0.001	0.01	0.51	4.0	0.2	0.6	27.0	<0.01	0.05	7.6
YY18437		1.40	17.8	540	20.6	14.0	<0.001	0.01	0.35	3.9	0.5	0.6	34.0	<0.01	0.04	5.1
YY18438		1.58	14.7	930	54.3	20.2	<0.001	0.01	0.38	4.1	0.4	0.6	70.9	<0.01	0.06	12.0
YY18439		1.27	16.3	550	22.1	13.2	<0.001	0.01	0.39	3.1	0.3	0.5	40.0	<0.01	0.04	4.4
YY18440		1.04	10.1	1200	99.6	23.2	<0.001	0.01	0.95	4.0	0.4	0.7	139.0	<0.01	0.05	20.5

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **ATAC RESOURCES LTD.**
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VANCOUVER BC V6B 1L8

Finalized Date: 5-SEP-2019
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CERTIFICATE OF ANALYSIS WH19198425

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18401		0.071	0.17	0.82	52	0.22	5.35	93	0.7
YY18402		0.065	0.17	0.88	60	0.21	4.44	88	0.5
YY18403		0.105	0.18	1.18	60	0.20	5.98	65	0.9
YY18404		0.084	0.18	0.58	78	0.29	2.72	58	2.7
YY18405		0.064	0.30	0.77	88	0.19	3.19	71	<0.5
YY18406		0.193	0.32	0.62	116	0.25	3.93	138	1.5
YY18407		0.172	0.24	0.71	114	0.17	4.23	112	1.2
YY18408		0.073	0.22	1.84	70	0.19	5.23	110	<0.5
YY18409		0.068	0.25	3.32	51	14.10	4.83	87	<0.5
YY18410		0.101	0.27	3.19	65	7.26	3.55	62	2.9
YY18411		0.048	0.21	4.27	59	13.00	5.53	92	2.9
YY18412		0.132	0.47	5.56	72	9.80	4.40	124	5.4
YY18413		0.058	0.25	7.08	50	10.50	5.14	177	0.5
YY18414		0.078	0.18	2.96	67	15.40	3.56	102	2.7
YY18415		0.081	0.21	3.21	67	4.66	3.72	64	1.6
YY18416		0.063	0.18	5.18	54	4.99	3.54	64	0.5
YY18417		0.056	0.23	5.92	50	8.02	5.04	215	0.5
YY18418		0.053	0.22	5.34	52	17.15	4.26	156	0.5
YY18419		0.078	0.28	7.43	61	6.51	6.16	136	0.9
YY18420		0.066	0.16	2.12	52	1.81	2.98	74	0.5
YY18421		0.037	0.23	5.38	40	3.88	3.49	59	<0.5
YY18422		0.046	0.22	6.03	38	24.6	3.83	88	<0.5
YY18423		0.061	0.26	11.90	43	2.85	9.08	143	<0.5
YY18424		0.094	0.18	1.27	74	2.13	3.19	69	0.8
YY18425		0.096	0.15	3.31	62	1.06	6.38	65	2.3
YY18426		0.103	0.15	3.03	65	9.00	6.85	65	1.3
YY18427		0.105	0.18	2.45	64	7.79	5.02	64	1.2
YY18428		0.082	0.19	4.06	65	4.42	6.05	55	0.6
YY18429		0.091	0.17	3.59	58	7.81	4.58	56	0.5
YY18430		0.097	0.21	4.27	64	1.80	4.72	58	0.6
YY18431		0.105	0.30	2.80	71	2.52	3.43	80	0.5
YY18432		0.097	0.20	3.46	65	3.25	3.41	59	0.7
YY18433		0.067	0.12	2.52	46	1.73	2.34	35	0.5
YY18434		0.081	0.16	2.50	56	2.96	3.21	48	0.8
YY18435		0.087	0.16	2.51	55	5.98	3.89	48	0.8
YY18436		0.101	0.16	2.59	71	1.59	4.44	65	2.5
YY18437		0.094	0.15	3.93	67	4.03	5.23	56	1.5
YY18438		0.102	0.23	6.05	71	8.15	6.07	71	1.9
YY18439		0.086	0.15	2.54	65	3.33	3.91	59	1.1
YY18440		0.058	0.29	7.75	60	3.89	6.76	212	0.8

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	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18441		0.42	0.002	0.74	1.73	18.9	<0.02	<10	140	0.63	2.05	0.28	0.54	35.9	7.0	22
YY18442		0.51	0.014	0.80	1.52	11.9	<0.02	<10	130	0.54	1.64	0.23	0.43	28.4	4.2	19
YY18443		0.50	0.002	0.46	1.83	18.0	<0.02	<10	150	1.24	1.41	0.32	0.47	33.6	6.1	20
YY18444		0.47	0.002	0.25	1.82	22.7	<0.02	<10	120	0.63	1.33	0.28	0.27	26.1	4.1	19
YY18445		0.52	0.004	0.63	1.72	21.5	<0.02	<10	120	0.60	1.22	0.31	0.21	27.2	4.8	20
YY18446		0.36	0.006	0.62	1.80	24.6	<0.02	<10	120	0.61	1.21	0.30	0.39	29.4	4.9	22
YY18447		0.69	0.004	0.58	1.82	38.4	<0.02	<10	140	0.70	1.08	0.43	0.27	33.1	8.1	26
YY18448		0.44	0.002	0.19	1.54	22.3	0.04	<10	160	0.77	1.11	0.55	0.17	40.3	6.1	20
YY18449		0.57	0.003	0.16	1.94	33.3	0.05	<10	170	1.17	1.19	0.62	0.20	39.9	7.2	25
YY18450		0.51	0.002	0.10	3.09	33.8	<0.02	<10	220	1.46	0.67	0.83	0.23	42.5	8.9	39
YY18451		0.45	0.002	0.20	2.24	25.8	<0.02	<10	140	0.89	0.81	0.37	0.17	31.8	6.8	26
YY18452		0.51	0.007	0.19	1.99	26.8	<0.02	<10	110	0.91	1.25	0.66	0.18	33.3	6.4	18
YY18453		0.41	0.002	0.35	2.18	11.3	<0.02	<10	150	1.30	1.29	0.57	0.18	38.4	6.0	21
YY18454		0.47	0.002	0.07	2.59	12.9	<0.02	<10	130	1.43	0.91	0.81	0.26	36.9	7.9	19
YY18455		0.55	0.001	0.16	2.03	11.5	<0.02	<10	140	1.08	1.58	0.40	0.31	42.1	9.8	19
YY18456		0.39	0.003	0.18	1.80	10.9	<0.02	<10	160	0.54	1.37	0.28	0.39	33.3	6.2	19
YY18457		0.38	<0.001	0.53	2.07	11.3	<0.02	<10	170	0.57	2.41	0.25	0.49	30.8	5.4	21
YY18458		0.46	0.002	0.44	2.39	12.2	0.07	<10	140	0.78	3.35	0.29	0.32	34.1	6.1	24
YY18459		0.40	0.004	1.64	3.07	25.7	<0.02	<10	200	1.49	8.14	1.00	0.46	47.3	6.5	16
YY18460		0.46	0.001	0.36	1.90	8.8	<0.02	<10	130	0.58	2.54	0.28	0.22	30.1	6.3	20
YY18461		0.30	<0.001	0.58	2.07	6.6	<0.02	<10	140	0.68	3.22	0.58	0.23	18.85	3.9	13
YY18462		0.45	<0.001	0.19	2.53	14.9	<0.02	<10	120	0.63	3.09	0.23	0.20	29.6	9.9	28
YY18463		0.47	0.002	0.18	2.29	15.7	<0.02	<10	120	0.54	2.69	0.23	0.18	28.3	7.7	27
YY18464		0.40	0.002	0.05	2.71	12.6	<0.02	<10	140	0.81	2.87	0.52	0.21	38.4	10.2	23
YY18465		0.43	0.002	0.16	2.45	13.4	<0.02	<10	150	1.02	1.91	0.52	0.22	38.2	8.5	23
YY18466		0.50	0.001	0.06	2.97	10.5	<0.02	<10	160	1.40	0.86	1.12	0.11	49.6	6.8	19
YY18467		0.58	0.001	0.14	2.61	14.9	<0.02	<10	200	1.05	2.33	0.54	0.24	39.8	6.9	20
YY18468		0.60	0.002	0.14	2.68	23.6	<0.02	<10	220	0.80	2.04	0.34	0.29	37.4	12.2	28
YY18469		0.62	0.002	0.14	2.04	17.1	<0.02	<10	230	0.54	2.12	0.39	0.22	40.5	10.3	26
YY18470		0.47	0.004	0.66	2.54	105.0	<0.02	<10	170	0.95	0.72	0.66	0.54	35.8	8.0	43
YY18471		0.47	0.001	0.20	1.96	20.7	<0.02	<10	170	0.78	0.56	0.72	0.29	39.9	8.3	30
YY18472		0.41	0.001	0.63	2.54	17.7	<0.02	<10	120	0.77	1.65	0.41	0.45	28.0	7.9	23
YY18473		0.37	0.001	0.31	2.21	13.3	<0.02	<10	140	1.06	0.69	0.19	0.60	39.8	5.7	19
YY18474		0.41	0.001	0.34	3.33	79.4	<0.02	<10	140	1.29	1.02	0.75	0.56	46.8	13.2	19
YY18475		0.39	0.004	0.44	2.09	393	<0.02	<10	120	0.66	1.01	0.63	0.68	45.5	8.2	19
YY18476		0.43	<0.001	0.08	3.28	12.6	<0.02	<10	200	1.27	0.84	1.01	0.34	59.8	8.6	15
YY18477		0.43	<0.001	0.16	3.17	19.3	<0.02	<10	150	2.68	0.91	1.76	0.40	49.9	7.1	9
YY18478		0.68	0.001	0.76	2.21	76.2	<0.02	<10	170	1.98	4.02	1.12	0.81	88.6	12.5	10
YY18479		0.42	0.004	0.30	2.50	38.7	0.05	<10	170	0.88	2.38	0.34	0.60	36.0	16.7	32
YY18480		0.22	0.004	1.41	2.29	46.8	<0.02	<10	110	0.74	1.76	0.13	0.68	22.4	4.8	24

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Project: CN

Finalized Date: 5-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198425

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18441		1.95	37.4	2.72	6.13	<0.05	<0.02	0.04	0.027	0.06	23.0	21.6	0.45	350	18.30	0.01
YY18442		1.81	42.6	2.01	6.32	<0.05	<0.02	0.05	0.027	0.05	17.0	13.0	0.30	161	15.05	0.02
YY18443		1.99	42.6	2.71	7.66	<0.05	<0.02	0.03	0.026	0.06	20.6	13.2	0.36	308	7.91	0.02
YY18444		2.28	21.6	2.28	8.55	<0.05	<0.02	0.02	0.021	0.06	15.5	12.3	0.38	190	6.72	0.02
YY18445		2.08	26.7	2.30	6.88	<0.05	<0.02	0.04	0.022	0.05	16.6	13.8	0.36	197	8.68	0.02
YY18446		2.22	29.0	2.41	7.41	<0.05	<0.02	0.04	0.024	0.07	17.8	15.1	0.39	175	7.52	0.01
YY18447		2.06	27.8	3.23	7.09	<0.05	<0.02	0.03	0.026	0.07	20.7	19.1	0.45	321	6.99	0.02
YY18448		1.77	29.5	2.30	5.67	0.05	0.03	0.02	0.021	0.05	24.4	13.5	0.40	245	3.49	0.02
YY18449		2.76	33.9	2.63	7.11	0.05	0.06	0.03	0.049	0.08	24.1	18.3	0.52	280	4.99	0.02
YY18450		5.48	32.6	3.10	10.60	0.06	0.07	0.01	0.033	0.31	25.6	26.0	0.85	353	4.12	0.02
YY18451		2.60	27.1	2.95	8.27	0.05	0.04	0.03	0.027	0.06	18.0	17.1	0.47	222	3.86	0.02
YY18452		3.48	25.5	3.36	9.50	0.05	0.02	0.02	0.024	0.07	21.5	14.4	0.40	276	4.97	0.02
YY18453		4.15	34.9	2.62	9.99	0.06	0.02	0.04	0.026	0.06	23.4	18.6	0.45	203	8.18	0.02
YY18454		4.82	27.8	3.21	11.90	0.08	0.04	0.03	0.029	0.07	22.5	22.8	0.44	313	5.67	0.01
YY18455		2.93	31.3	3.14	10.25	0.08	0.02	0.02	0.026	0.07	25.6	16.7	0.42	464	8.11	0.01
YY18456		2.36	41.8	2.80	7.97	0.06	0.03	0.02	0.026	0.07	20.7	14.5	0.41	276	17.95	0.02
YY18457		2.37	45.5	2.67	9.75	0.06	<0.02	0.01	0.026	0.09	18.9	14.2	0.42	235	15.80	0.02
YY18458		3.25	73.1	3.23	8.70	0.07	0.02	0.05	0.036	0.08	20.9	23.3	0.46	254	17.35	0.02
YY18459		5.18	158.0	2.96	9.76	0.08	<0.02	0.06	0.048	0.13	33.9	25.8	0.44	393	26.3	0.03
YY18460		3.21	56.1	2.78	7.72	0.05	0.02	0.04	0.025	0.08	19.1	21.5	0.42	271	15.75	0.02
YY18461		3.75	60.4	1.81	7.80	<0.05	<0.02	0.06	0.021	0.08	12.7	15.6	0.30	270	25.0	0.02
YY18462		3.58	45.8	3.69	8.99	0.07	0.05	0.04	0.031	0.07	16.7	22.8	0.54	377	5.43	0.02
YY18463		2.73	33.9	3.53	9.53	0.06	0.03	0.04	0.035	0.06	15.7	19.4	0.50	266	3.20	0.01
YY18464		4.68	56.7	4.18	10.20	0.09	0.02	0.01	0.030	0.12	24.7	24.8	0.65	391	7.28	0.02
YY18465		3.77	36.5	3.44	9.28	0.08	<0.02	0.03	0.030	0.07	22.1	23.1	0.54	306	2.97	0.02
YY18466		7.47	18.7	2.65	9.15	0.08	0.03	0.03	0.024	0.09	28.6	16.1	0.45	288	1.30	0.02
YY18467		3.64	31.4	3.03	8.92	0.06	<0.02	0.04	0.031	0.08	22.9	19.6	0.48	251	2.45	0.02
YY18468		3.01	32.8	3.57	8.41	0.08	0.02	0.04	0.033	0.11	19.1	25.7	0.60	397	2.54	0.02
YY18469		2.41	33.0	3.05	7.08	0.09	0.05	0.02	0.028	0.09	20.5	23.5	0.62	325	1.91	0.02
YY18470		5.11	45.6	3.14	8.57	0.08	0.04	0.03	0.040	0.09	20.7	23.5	0.65	279	7.03	0.02
YY18471		3.66	31.2	3.01	6.59	0.08	0.04	0.02	0.027	0.07	23.1	16.4	0.53	315	2.47	0.02
YY18472		3.98	35.1	3.60	10.15	0.05	0.03	0.03	0.037	0.08	15.9	21.7	0.47	301	6.73	0.01
YY18473		2.62	29.4	2.60	8.10	0.06	0.02	0.06	0.030	0.06	25.4	14.9	0.27	223	3.80	0.02
YY18474		7.16	60.2	4.10	10.90	0.08	0.13	0.02	0.044	0.15	32.9	33.2	0.74	405	3.08	0.02
YY18475		4.34	30.6	4.17	9.64	0.08	0.02	0.03	0.048	0.13	31.7	19.5	0.54	495	4.11	0.02
YY18476		12.50	36.8	4.57	13.70	0.12	0.05	0.02	0.031	0.30	41.2	34.4	0.81	556	2.58	0.02
YY18477		13.00	65.6	3.57	16.45	0.13	0.07	0.01	0.035	0.17	33.9	27.1	0.50	351	5.55	0.01
YY18478		5.68	178.0	4.56	11.10	0.15	0.06	0.01	0.058	0.15	61.5	41.7	0.83	886	15.15	0.02
YY18479		2.70	95.2	3.65	7.32	0.07	0.10	0.02	0.044	0.08	19.1	24.7	0.62	499	5.71	0.02
YY18480		3.86	46.5	3.61	11.90	0.05	0.05	0.07	0.037	0.05	12.6	17.0	0.30	146	5.98	0.01

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Finalized Date: 5-SEP-2019
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CERTIFICATE OF ANALYSIS WH19198425

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18441		1.05	13.3	750	43.4	14.5	<0.001	0.01	0.44	2.8	0.4	0.5	49.2	<0.01	0.03	3.9
YY18442		0.79	10.9	490	36.1	12.9	<0.001	0.01	0.29	1.7	0.3	0.5	40.8	<0.01	0.04	0.8
YY18443		0.96	11.6	690	35.1	14.1	<0.001	0.01	0.35	2.0	0.4	0.5	47.6	<0.01	0.03	1.2
YY18444		1.25	9.9	360	34.9	13.2	<0.001	<0.01	0.34	2.1	0.3	0.6	44.2	<0.01	0.03	2.0
YY18445		0.88	11.3	640	36.7	11.9	<0.001	0.02	0.34	1.8	0.4	0.5	42.6	<0.01	0.03	0.7
YY18446		1.10	12.5	660	41.1	13.7	<0.001	0.01	0.32	2.1	0.4	0.5	42.5	<0.01	0.03	1.1
YY18447		1.33	17.1	910	45.6	12.9	<0.001	0.01	0.44	3.1	0.4	0.5	51.4	<0.01	0.04	5.8
YY18448		1.49	12.6	860	28.5	9.9	<0.001	<0.01	0.36	3.5	0.4	0.5	72.3	0.01	0.02	9.5
YY18449		1.58	15.7	750	34.8	14.1	<0.001	<0.01	0.40	4.4	0.4	0.5	92.5	0.02	0.03	14.4
YY18450		2.44	22.6	710	28.9	35.6	<0.001	<0.01	0.32	6.4	0.4	0.6	172.5	0.01	0.03	11.9
YY18451		1.93	17.0	550	28.7	12.1	<0.001	<0.01	0.39	4.1	0.5	0.6	48.6	<0.01	0.03	6.9
YY18452		1.86	11.0	910	27.1	12.6	<0.001	0.01	0.41	3.0	0.2	0.5	92.1	0.01	0.03	10.5
YY18453		1.68	13.9	750	23.6	14.4	<0.001	0.01	0.36	3.7	0.5	0.6	76.1	0.01	0.03	3.9
YY18454		2.02	15.8	700	21.9	10.8	0.001	0.01	0.66	3.7	0.5	0.7	110.5	0.01	0.03	7.6
YY18455		1.87	12.5	700	23.3	14.4	<0.001	0.01	0.52	3.5	0.4	0.7	56.7	0.01	0.05	8.4
YY18456		1.36	12.7	830	17.7	17.7	<0.001	0.02	0.39	2.7	0.6	0.7	101.0	<0.01	0.03	4.0
YY18457		1.28	14.7	680	22.8	25.7	0.001	0.02	0.41	2.8	0.6	0.8	57.0	<0.01	0.03	2.0
YY18458		1.45	14.6	680	37.8	23.7	0.001	0.02	0.44	3.3	0.4	0.7	61.2	<0.01	0.05	4.0
YY18459		0.98	11.1	1240	133.5	28.8	0.001	0.05	0.64	3.0	0.8	0.6	264	0.01	0.06	3.0
YY18460		1.33	12.6	800	18.0	20.8	<0.001	0.02	0.36	2.5	0.3	0.6	79.3	<0.01	0.04	3.5
YY18461		0.84	7.7	560	14.9	15.5	0.001	0.04	0.32	1.5	0.5	0.5	174.0	<0.01	0.05	0.9
YY18462		1.93	20.7	710	21.5	16.7	0.001	0.02	0.56	3.6	0.7	0.8	42.7	<0.01	0.06	7.7
YY18463		1.82	17.7	520	22.1	13.4	<0.001	0.02	0.50	3.4	0.8	0.9	53.1	<0.01	0.07	5.8
YY18464		1.52	15.0	1230	25.3	20.8	0.001	0.04	0.41	3.7	0.5	0.8	146.0	0.01	0.08	10.6
YY18465		1.27	17.3	1050	30.4	13.3	0.001	0.02	0.45	3.2	0.6	0.8	119.0	<0.01	0.02	2.5
YY18466		0.81	11.9	850	12.6	14.5	<0.001	0.01	0.50	3.7	0.5	0.7	148.0	<0.01	0.03	6.1
YY18467		1.37	11.9	880	23.7	11.2	<0.001	0.02	0.36	3.5	0.5	0.8	141.0	0.01	0.04	3.5
YY18468		1.82	19.6	750	25.9	20.8	<0.001	0.02	0.45	4.8	0.4	0.8	58.3	<0.01	0.06	5.6
YY18469		1.96	19.9	700	24.2	19.2	0.001	0.02	0.46	4.7	0.3	0.7	70.2	<0.01	0.07	8.1
YY18470		2.04	25.1	790	113.5	19.3	<0.001	0.01	1.25	4.9	0.5	0.7	109.5	0.01	0.03	7.4
YY18471		1.31	20.0	890	36.4	13.4	<0.001	0.01	0.54	3.9	0.4	0.6	104.0	0.01	0.02	7.5
YY18472		2.03	16.2	490	63.6	17.7	<0.001	0.02	0.77	3.4	0.4	0.9	72.2	0.01	0.04	7.1
YY18473		1.30	12.6	810	41.7	15.6	0.001	0.03	0.49	2.3	0.7	0.6	46.8	0.01	0.04	1.3
YY18474		1.18	15.7	1250	55.5	30.9	<0.001	0.01	0.81	5.0	0.8	1.0	167.5	0.01	0.04	26.7
YY18475		1.47	12.8	1590	478	27.5	0.001	0.02	3.07	3.2	0.3	0.7	159.0	<0.01	0.04	22.5
YY18476		1.81	11.5	1850	34.6	62.8	<0.001	0.01	0.44	5.6	0.4	1.2	243	0.01	0.02	41.5
YY18477		1.07	6.4	1560	51.4	44.6	<0.001	0.01	0.61	5.0	0.5	0.9	260	<0.01	0.05	36.2
YY18478		0.83	6.0	1900	37.1	21.9	<0.001	0.01	1.25	6.5	0.7	0.8	326	<0.01	0.03	48.5
YY18479		1.61	27.0	780	66.1	16.2	<0.001	0.02	0.81	4.5	0.6	0.6	49.7	<0.01	0.04	8.7
YY18480		2.53	13.1	420	53.6	16.0	0.001	0.03	0.75	3.2	0.5	1.0	30.8	<0.01	0.06	3.7

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18441		0.073	0.17	3.93	57	3.75	5.37	87	0.6
YY18442		0.059	0.13	4.36	44	1.96	4.17	51	<0.5
YY18443		0.071	0.14	4.39	63	1.05	4.73	60	<0.5
YY18444		0.084	0.15	1.80	57	2.22	3.24	62	0.5
YY18445		0.061	0.15	3.29	51	0.82	3.77	56	<0.5
YY18446		0.071	0.14	3.19	54	0.99	4.02	60	<0.5
YY18447		0.076	0.14	2.97	69	1.82	5.61	73	0.5
YY18448		0.088	0.12	2.81	51	1.87	8.19	51	1.2
YY18449		0.110	0.16	2.90	57	1.78	7.99	68	2.5
YY18450		0.180	0.33	2.37	62	0.54	8.58	83	3.2
YY18451		0.106	0.17	2.41	64	0.68	5.03	60	2.1
YY18452		0.097	0.15	2.82	78	2.86	4.29	57	0.9
YY18453		0.093	0.16	4.73	57	1.51	6.31	58	0.6
YY18454		0.104	0.16	2.47	67	6.08	4.93	58	1.2
YY18455		0.106	0.17	3.15	69	3.05	4.69	58	0.9
YY18456		0.086	0.15	2.99	64	2.16	4.37	54	0.8
YY18457		0.092	0.19	2.75	66	4.04	3.58	77	0.7
YY18458		0.090	0.19	4.47	67	3.81	4.35	68	0.7
YY18459		0.055	0.28	11.60	52	9.37	7.07	131	<0.5
YY18460		0.083	0.16	4.76	59	4.45	4.03	55	0.7
YY18461		0.041	0.15	4.48	37	5.48	2.83	51	<0.5
YY18462		0.114	0.21	2.79	75	6.54	4.00	64	1.6
YY18463		0.109	0.19	2.14	78	3.22	4.14	57	1.2
YY18464		0.117	0.32	3.85	83	25.9	4.79	69	0.8
YY18465		0.084	0.21	3.90	72	1.93	6.15	61	0.5
YY18466		0.061	0.29	2.40	57	0.84	6.63	45	0.8
YY18467		0.078	0.26	3.00	63	4.53	5.89	52	<0.5
YY18468		0.108	0.26	2.71	73	4.90	6.76	75	0.9
YY18469		0.127	0.23	2.51	67	5.48	7.44	64	1.8
YY18470		0.133	0.26	2.03	81	0.75	5.91	107	1.7
YY18471		0.114	0.17	1.47	69	3.58	6.37	70	1.5
YY18472		0.106	0.25	1.43	78	2.82	3.20	74	1.4
YY18473		0.069	0.15	2.32	57	5.04	5.18	51	0.7
YY18474		0.114	0.36	2.58	76	13.85	5.56	104	4.2
YY18475		0.104	0.31	2.99	86	2.75	4.74	180	0.7
YY18476		0.135	0.71	3.84	81	6.63	6.20	87	1.6
YY18477		0.090	0.61	5.76	64	1.53	5.91	84	2.0
YY18478		0.079	0.23	8.65	87	6.79	16.25	110	2.3
YY18479		0.113	0.19	2.63	75	3.13	5.22	101	3.7
YY18480		0.096	0.18	1.80	84	2.31	3.06	76	2.0

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Project: CN

Finalized Date: 5-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198425

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18481		0.36	0.001	0.16	2.18	20.7	<0.02	<10	130	0.44	1.34	0.24	0.43	21.0	7.7	30
YY18482		0.24	0.003	0.44	2.38	73.1	<0.02	<10	200	0.88	4.12	0.32	0.71	27.8	15.1	35
YY18483		0.26	0.003	0.61	2.73	61.1	<0.02	<10	280	0.86	4.97	0.29	0.52	30.9	10.2	38
YY18484		0.34	0.001	0.29	2.01	47.4	<0.02	<10	160	0.38	2.57	0.29	0.34	24.7	10.6	31
YY18485		0.29	0.002	0.48	1.90	55.8	<0.02	<10	210	0.40	2.20	0.36	0.24	24.8	8.4	29
YY18486		0.35	0.002	0.59	2.11	64.7	<0.02	<10	230	0.48	1.82	0.34	0.23	26.8	10.5	34
YY18487		0.37	0.001	0.34	2.29	110.5	<0.02	<10	290	0.62	2.60	0.41	0.29	36.7	12.2	35
YY18488		0.33	0.005	8.48	2.33	436	<0.02	<10	170	0.73	29.2	0.82	2.80	21.6	10.5	30
YY18489		0.34	0.006	2.23	2.10	81.0	<0.02	<10	160	1.98	3.47	1.08	5.38	24.5	10.6	26
YY18490		0.39	0.009	1.34	1.85	201	<0.02	<10	180	0.87	2.05	0.56	1.51	24.3	10.2	34
YY18491		0.23	<0.001	0.75	1.21	7.2	<0.02	<10	100	0.80	0.72	0.17	0.23	17.90	2.4	10
YY18492		0.34	0.003	0.23	1.64	15.0	<0.02	<10	100	0.49	0.49	0.20	0.22	25.5	5.1	20
YY18493		0.39	0.001	0.14	1.43	16.4	<0.02	<10	100	0.24	0.54	0.14	0.19	21.0	5.4	22
YY18494		0.35	0.003	0.06	1.92	15.7	<0.02	<10	130	0.48	0.57	0.18	0.24	27.2	6.4	26
YY18495		0.35	0.003	0.08	2.20	24.6	<0.02	<10	180	0.75	0.73	0.31	0.44	35.9	11.6	28
YY18496		0.34	0.010	0.21	2.12	61.1	<0.02	<10	220	0.66	2.32	0.40	0.51	31.5	10.2	32
YY18497		0.34	0.006	1.00	1.82	97.4	<0.02	<10	140	0.48	2.58	0.31	0.99	24.0	7.1	27
YY18498		0.34	0.004	0.83	2.20	134.0	<0.02	<10	160	0.53	1.76	0.21	1.05	22.9	8.6	34
YY18499		0.39	0.001	0.11	2.14	70.8	<0.02	<10	160	0.53	1.88	0.28	0.29	21.6	9.7	35
YY18500		0.28	0.001	0.08	2.85	22.2	<0.02	<10	200	0.73	1.45	0.21	0.29	23.5	11.5	42
YY18501		0.31	0.002	0.16	2.39	24.4	<0.02	<10	220	0.63	1.71	0.21	0.23	27.9	11.3	40
YY18502		0.29	0.003	0.10	2.47	22.6	<0.02	<10	220	0.68	0.93	0.21	0.19	29.0	12.3	39
YY18503		0.41	0.001	0.24	2.04	21.0	<0.02	<10	380	0.70	1.32	0.62	0.14	35.6	10.5	35
YY18504		0.34	0.002	0.07	2.57	17.5	<0.02	<10	160	0.49	0.82	0.25	0.24	22.1	10.4	32
YY18505		0.35	0.003	0.12	1.91	17.1	<0.02	<10	160	0.44	1.08	0.21	0.19	26.7	8.1	28
YY18506		0.35	0.001	0.26	1.83	13.1	<0.02	<10	140	0.52	1.73	0.29	0.20	27.0	7.7	23
YY18507		0.37	<0.001	0.43	2.49	15.6	<0.02	<10	160	0.95	2.73	0.36	0.25	30.0	7.9	23
YY18508		0.36	0.001	0.22	1.82	10.9	<0.02	<10	150	0.61	4.10	0.26	0.19	27.4	10.2	15
YY18509		0.43	0.001	0.38	1.95	6.4	<0.02	<10	190	0.88	16.70	0.56	0.33	36.1	6.9	15
YY18510		0.39	<0.001	0.16	1.79	7.1	<0.02	<10	210	0.68	5.65	0.64	0.17	37.1	7.3	13
YY18511		0.37	0.001	0.21	2.01	10.9	<0.02	<10	150	0.81	2.46	0.24	0.29	31.3	13.7	21
YY18512		0.36	0.001	0.37	2.29	13.8	<0.02	<10	140	0.71	3.01	0.22	0.30	27.7	7.8	23
YY18513		0.43	0.001	0.41	1.71	20.3	<0.02	<10	220	0.72	3.03	0.66	0.45	40.9	7.6	13
YY18514		0.37	0.001	0.18	1.97	42.5	<0.02	<10	150	0.66	1.38	0.50	0.21	39.8	9.7	22
YY18515		0.38	0.001	0.28	1.68	30.0	<0.02	<10	140	0.71	7.55	0.56	0.24	42.3	6.5	17
YY18516		0.38	0.003	0.35	1.68	23.7	<0.02	<10	120	0.77	3.14	0.62	0.19	35.1	6.2	17
YY18517		0.42	0.003	0.45	1.76	39.1	<0.02	<10	150	0.86	2.39	0.45	0.31	43.1	6.5	21
YY18518		0.46	0.004	0.47	1.97	33.3	<0.02	<10	230	0.97	2.44	0.46	0.43	45.3	9.1	25
YY18519		0.41	0.003	0.42	1.69	20.2	<0.02	<10	210	0.54	2.20	0.35	0.23	36.2	4.5	19
YY18520		0.33	0.008	0.38	1.82	20.6	<0.02	<10	190	0.48	2.26	0.38	0.17	31.3	7.7	20

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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VANCOUVER BC V6B 1L8

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18481		3.01	36.2	3.21	8.05	0.05	0.04	0.03	0.028	0.08	11.5	20.4	0.50	220	3.06	0.02
YY18482		4.83	105.0	3.53	8.52	0.07	0.03	0.06	0.043	0.16	16.3	25.9	0.63	530	5.73	0.02
YY18483		3.62	97.8	3.57	8.60	0.07	0.03	0.07	0.047	0.10	17.6	26.5	0.61	309	4.49	0.02
YY18484		1.57	28.3	2.72	7.22	0.05	0.02	0.01	0.029	0.07	13.2	21.0	0.54	404	1.89	0.02
YY18485		1.89	29.0	2.31	6.88	0.06	<0.02	0.03	0.034	0.06	13.1	25.0	0.51	288	2.43	0.02
YY18486		1.95	36.3	2.73	6.94	0.06	0.03	0.07	0.033	0.07	14.0	28.3	0.60	337	2.00	0.02
YY18487		2.48	40.3	3.07	7.41	0.07	0.02	0.02	0.033	0.11	19.2	39.4	0.67	421	2.34	0.02
YY18488		5.45	181.0	5.40	8.23	0.05	0.06	0.06	0.437	0.10	8.8	20.5	0.61	1020	4.13	0.02
YY18489		3.18	170.5	4.76	6.48	0.11	0.09	0.06	0.400	0.05	15.2	16.1	0.78	2470	1.18	0.03
YY18490		1.70	58.3	3.88	6.54	0.07	0.10	0.06	0.219	0.04	14.3	16.5	0.56	906	1.69	0.02
YY18491		4.75	24.3	1.53	6.75	<0.05	<0.02	0.05	0.015	0.05	11.5	4.6	0.12	95	2.68	0.02
YY18492		3.59	24.4	2.96	9.17	<0.05	<0.02	0.03	0.022	0.06	15.5	11.4	0.29	218	3.30	0.01
YY18493		1.72	19.4	3.04	9.65	<0.05	0.03	0.01	0.019	0.05	10.8	9.6	0.31	223	2.95	0.01
YY18494		1.83	29.7	2.58	7.38	<0.05	0.03	0.03	0.027	0.05	15.6	15.7	0.40	191	2.50	0.01
YY18495		2.54	47.9	2.90	7.82	0.06	0.04	0.03	0.025	0.07	19.3	21.1	0.54	378	3.47	0.01
YY18496		2.42	52.1	3.00	7.44	0.06	0.02	0.03	0.040	0.07	18.8	22.3	0.55	346	3.06	0.02
YY18497		2.14	65.1	2.61	6.69	<0.05	0.04	0.03	0.046	0.07	13.9	15.3	0.50	296	3.61	0.02
YY18498		2.92	54.2	3.48	8.03	<0.05	0.04	0.04	0.061	0.10	12.7	21.1	0.60	382	5.65	0.01
YY18499		3.55	50.8	3.23	8.04	0.05	0.04	0.01	0.031	0.14	11.4	20.0	0.64	319	2.48	0.02
YY18500		3.48	40.2	3.82	9.20	0.05	0.11	0.02	0.036	0.12	11.2	26.9	0.73	298	1.76	0.02
YY18501		3.20	42.7	3.31	8.18	0.05	0.03	0.02	0.029	0.11	13.6	24.1	0.64	403	1.94	0.02
YY18502		2.71	46.9	3.22	7.15	<0.05	0.03	0.08	0.031	0.10	14.6	23.9	0.62	397	1.92	0.02
YY18503		3.10	48.9	3.24	7.15	0.07	0.07	0.04	0.029	0.12	20.1	20.1	0.66	489	2.05	0.03
YY18504		1.87	26.2	3.01	6.18	0.05	0.06	0.02	0.029	0.07	11.8	20.4	0.55	301	1.33	0.02
YY18505		1.43	28.6	2.71	6.66	<0.05	<0.02	0.02	0.025	0.06	13.4	14.7	0.45	284	1.77	0.02
YY18506		2.64	42.6	2.69	6.88	0.05	<0.02	0.02	0.026	0.07	15.7	16.2	0.48	292	4.35	0.02
YY18507		5.70	77.1	3.46	10.65	0.05	0.02	0.03	0.029	0.08	19.5	36.7	0.55	428	29.0	0.02
YY18508		4.22	89.8	3.44	10.60	0.06	0.03	0.02	0.029	0.09	17.3	19.8	0.52	622	17.90	0.02
YY18509		2.72	105.5	2.59	7.91	<0.05	0.02	0.02	0.020	0.07	24.6	24.6	0.51	346	19.75	0.02
YY18510		2.64	119.0	3.00	7.24	0.05	0.02	0.02	0.026	0.09	26.2	29.7	0.51	435	15.15	0.02
YY18511		2.61	89.9	3.32	8.26	<0.05	0.02	0.03	0.028	0.08	19.2	24.3	0.48	489	17.00	0.02
YY18512		3.43	106.5	3.52	9.52	<0.05	0.05	0.02	0.030	0.06	17.3	28.2	0.50	306	37.3	0.01
YY18513		2.61	95.6	2.95	7.72	0.06	<0.02	0.03	0.025	0.10	27.7	35.2	0.44	443	31.6	0.02
YY18514		2.81	57.1	3.17	7.45	0.06	0.04	0.01	0.028	0.08	23.5	25.6	0.54	487	34.6	0.02
YY18515		2.96	57.6	3.36	7.52	0.06	<0.02	0.03	0.024	0.07	27.8	21.1	0.47	301	27.4	0.02
YY18516		2.53	41.4	3.11	7.37	0.05	<0.02	0.01	0.030	0.07	23.5	19.6	0.42	313	27.5	0.02
YY18517		2.51	50.8	3.32	7.39	0.06	0.02	0.03	0.029	0.06	26.3	18.7	0.45	230	24.0	0.02
YY18518		2.25	50.0	3.28	7.84	0.06	0.02	0.05	0.045	0.07	26.6	16.1	0.48	320	14.20	0.02
YY18519		2.21	38.5	2.50	6.50	0.05	<0.02	0.05	0.029	0.05	22.4	17.5	0.37	127	15.70	0.02
YY18520		2.32	32.5	2.44	6.66	0.06	<0.02	0.05	0.027	0.05	19.2	19.5	0.41	335	16.45	0.02

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ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18481		2.18	20.0	510	17.9	14.9	0.001	0.02	0.51	3.5	0.5	0.6	38.0	<0.01	0.04	2.4
YY18482		2.36	28.0	780	51.5	25.2	<0.001	0.04	0.64	5.2	0.7	0.6	60.5	<0.01	0.10	6.6
YY18483		2.79	30.0	540	53.4	18.3	0.001	0.03	0.73	5.7	0.7	0.6	50.0	<0.01	0.11	3.1
YY18484		1.59	20.9	480	50.1	12.6	<0.001	0.02	0.39	3.6	0.4	0.6	36.9	<0.01	0.03	2.3
YY18485		1.65	18.7	540	41.2	11.2	<0.001	0.03	0.33	3.8	0.4	0.6	38.5	<0.01	0.05	1.8
YY18486		1.68	22.9	580	47.3	14.0	<0.001	0.02	0.39	4.6	0.4	0.6	35.0	<0.01	0.03	1.9
YY18487		2.10	25.2	600	36.8	20.5	0.001	0.02	0.46	5.3	0.7	0.6	50.4	<0.01	0.03	4.8
YY18488		1.17	20.4	460	2400	26.6	0.001	0.08	2.02	4.6	1.2	7.1	38.7	<0.01	0.61	2.5
YY18489		0.53	31.9	340	988	7.9	<0.001	0.01	0.91	6.0	0.5	2.4	50.3	<0.01	0.21	3.5
YY18490		0.68	26.8	290	291	8.6	0.001	0.01	0.90	5.8	<0.2	1.8	28.5	<0.01	0.10	4.0
YY18491		0.94	4.3	400	18.4	19.8	<0.001	0.02	0.37	1.2	0.2	0.5	67.0	<0.01	0.05	0.9
YY18492		1.24	9.0	760	18.8	12.8	<0.001	0.01	0.46	2.1	0.2	0.7	44.2	<0.01	0.07	2.5
YY18493		1.90	11.2	380	15.2	11.0	<0.001	0.01	0.54	2.5	0.3	0.8	42.3	<0.01	0.04	3.6
YY18494		1.35	15.1	400	16.2	9.1	<0.001	<0.01	0.53	3.4	<0.2	0.6	29.5	<0.01	0.04	3.8
YY18495		1.40	20.9	590	20.3	12.7	<0.001	0.01	0.82	3.8	0.3	0.5	41.4	0.01	0.05	7.1
YY18496		1.49	20.9	650	50.4	12.5	<0.001	0.01	0.76	4.5	0.3	0.5	59.2	<0.01	0.04	4.2
YY18497		1.47	19.0	540	142.0	12.0	0.001	0.01	1.08	3.5	0.2	0.5	49.1	<0.01	0.03	6.8
YY18498		2.32	21.0	510	164.0	17.4	<0.001	0.02	1.09	4.2	0.6	0.6	36.1	<0.01	0.06	3.5
YY18499		2.14	21.3	510	43.6	20.6	<0.001	0.01	0.57	4.7	<0.2	0.6	42.7	<0.01	0.06	3.7
YY18500		2.43	29.9	310	21.5	20.4	<0.001	0.01	0.54	6.2	0.4	0.6	34.3	0.01	0.05	4.2
YY18501		1.97	27.2	530	24.5	20.4	<0.001	0.01	0.54	5.5	0.4	0.5	29.3	<0.01	0.06	2.8
YY18502		1.91	27.4	610	20.8	15.6	<0.001	0.01	0.49	5.6	0.5	0.5	27.0	<0.01	0.05	2.8
YY18503		1.36	26.2	860	45.4	18.3	<0.001	0.01	0.77	6.7	0.2	0.5	109.5	<0.01	0.07	7.4
YY18504		1.57	22.1	580	18.6	10.8	<0.001	0.01	0.51	4.1	0.6	0.5	46.5	0.01	0.06	4.5
YY18505		1.01	17.9	650	20.4	11.2	<0.001	0.01	0.47	2.9	<0.2	0.5	29.7	<0.01	0.03	1.1
YY18506		1.04	14.6	810	31.5	14.0	<0.001	0.01	0.40	2.3	0.4	0.5	60.1	<0.01	0.02	1.8
YY18507		1.78	13.8	810	38.3	21.0	<0.001	0.02	0.44	3.2	<0.2	0.8	94.8	<0.01	0.05	6.9
YY18508		2.23	8.6	840	20.1	21.3	<0.001	0.03	0.36	2.9	0.2	1.1	136.0	<0.01	0.05	14.5
YY18509		1.22	8.8	740	19.1	16.9	<0.001	0.01	0.26	2.9	<0.2	0.6	249	<0.01	0.04	9.5
YY18510		1.20	8.1	1090	19.0	14.0	<0.001	0.01	0.30	2.7	<0.2	0.5	274	<0.01	0.04	16.1
YY18511		1.71	13.9	870	20.4	18.9	<0.001	0.02	0.41	3.1	<0.2	0.6	67.6	<0.01	0.05	10.8
YY18512		1.69	14.5	440	26.1	20.0	<0.001	0.01	0.45	3.4	0.3	0.8	88.6	<0.01	0.05	10.0
YY18513		1.04	9.0	1030	24.5	24.9	<0.001	0.01	0.46	2.4	0.2	0.5	240	<0.01	0.03	7.4
YY18514		1.14	15.0	820	31.3	16.8	<0.001	<0.01	0.67	3.5	<0.2	0.6	96.0	0.01	0.04	12.9
YY18515		1.44	9.8	1140	41.3	17.8	<0.001	0.01	0.47	3.1	0.3	0.5	99.4	<0.01	0.04	19.1
YY18516		1.29	9.6	950	42.5	13.5	<0.001	0.01	0.40	2.9	0.3	0.5	108.5	0.01	0.04	14.0
YY18517		1.37	12.4	1030	65.6	16.0	<0.001	0.01	0.51	3.6	0.3	0.5	82.8	<0.01	0.03	10.0
YY18518		1.30	18.7	920	62.8	16.1	<0.001	0.01	0.64	5.1	0.7	0.6	73.8	<0.01	0.03	16.0
YY18519		1.27	10.9	840	35.0	12.9	<0.001	0.03	0.38	3.4	<0.2	0.5	71.6	<0.01	0.02	8.8
YY18520		1.17	11.1	860	32.4	12.8	<0.001	0.03	0.36	3.2	0.2	0.5	76.1	<0.01	0.03	5.0

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 5-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198425

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18481		0.117	0.17	1.12	77	3.02	3.02	60	1.4
YY18482		0.129	0.26	4.14	80	12.15	5.19	129	1.4
YY18483		0.126	0.28	3.29	85	4.42	7.61	102	1.8
YY18484		0.107	0.13	0.92	69	0.95	3.88	74	0.9
YY18485		0.099	0.16	1.66	60	0.92	4.63	71	0.8
YY18486		0.115	0.15	1.27	70	0.77	5.06	74	0.9
YY18487		0.144	0.20	1.99	73	1.51	7.71	73	1.0
YY18488		0.090	0.48	0.93	63	5.33	4.13	991	2.6
YY18489		0.070	0.28	1.28	46	1.20	17.75	1020	3.4
YY18490		0.085	0.16	1.27	58	0.93	8.39	291	5.3
YY18491		0.056	0.16	1.69	35	3.17	2.11	24	<0.5
YY18492		0.085	0.17	1.58	72	5.54	3.12	40	0.6
YY18493		0.107	0.15	0.70	83	0.75	2.13	43	1.4
YY18494		0.078	0.17	1.44	60	1.23	3.81	46	0.9
YY18495		0.084	0.21	1.51	59	2.32	4.59	71	1.7
YY18496		0.107	0.19	2.91	70	0.88	5.91	116	1.1
YY18497		0.101	0.15	2.00	64	1.91	3.73	166	1.8
YY18498		0.128	0.19	1.27	83	2.70	3.62	200	1.7
YY18499		0.150	0.21	1.10	83	1.73	3.71	86	1.7
YY18500		0.162	0.22	1.02	97	0.44	4.11	68	4.7
YY18501		0.131	0.28	1.20	81	0.54	6.00	65	1.4
YY18502		0.120	0.27	2.92	76	0.47	6.33	61	1.5
YY18503		0.117	0.25	1.92	74	0.81	10.55	70	2.8
YY18504		0.094	0.16	0.95	62	0.94	4.10	57	2.1
YY18505		0.079	0.15	1.23	63	1.60	4.40	55	0.6
YY18506		0.084	0.14	2.65	61	7.61	4.09	59	0.6
YY18507		0.113	0.18	4.14	73	12.15	4.72	79	1.1
YY18508		0.136	0.20	4.58	71	11.65	3.16	64	1.2
YY18509		0.073	0.22	8.01	52	8.46	5.68	55	0.5
YY18510		0.080	0.21	6.24	57	11.20	5.01	57	0.6
YY18511		0.096	0.14	4.17	65	13.35	4.04	69	1.2
YY18512		0.093	0.18	3.13	71	12.65	3.49	63	2.1
YY18513		0.059	0.18	4.24	53	6.85	5.26	75	<0.5
YY18514		0.087	0.21	2.99	61	2.35	4.75	88	1.9
YY18515		0.078	0.20	9.63	67	6.86	5.50	78	0.6
YY18516		0.083	0.16	3.70	65	8.34	4.71	65	0.6
YY18517		0.080	0.20	4.88	68	3.71	6.28	77	0.7
YY18518		0.079	0.21	4.17	64	6.72	9.03	84	1.2
YY18519		0.072	0.15	4.18	45	3.60	5.50	60	0.5
YY18520		0.073	0.19	3.66	55	3.53	4.85	64	0.5

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Project: CN

Finalized Date: 5-SEP-2019
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CERTIFICATE OF ANALYSIS WH19198425

Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18521		0.44	0.001	0.31	1.67	32.6	<0.02	<10	190	0.52	3.01	0.39	0.19	34.6	7.4	26
YY18522		0.38	0.003	0.18	1.90	16.5	<0.02	<10	210	0.49	0.92	0.34	0.19	28.0	11.3	34
YY18523		0.35	0.008	0.23	1.95	26.4	<0.02	<10	220	0.50	1.55	0.35	0.20	31.1	9.5	33
YY18524		0.45	0.005	0.17	1.45	23.6	<0.02	<10	180	0.36	1.53	0.42	0.18	31.2	7.8	21
YY18525		0.44	0.002	0.15	1.70	20.1	<0.02	<10	170	0.34	1.77	0.34	0.16	27.3	5.9	23
YY18526		0.35	0.002	0.19	1.47	13.8	<0.02	<10	200	0.46	1.51	0.42	0.14	30.7	7.8	21
YY18527		0.40	0.001	0.18	1.48	14.1	<0.02	<10	210	0.48	1.95	0.41	0.15	32.3	8.8	22
YY18528		0.35	0.004	0.16	1.56	13.4	<0.02	<10	190	0.49	1.34	0.44	0.15	35.0	9.1	22
YY18529		0.40	0.001	0.15	1.48	11.1	<0.02	<10	210	0.52	1.64	0.43	0.12	34.4	7.4	22
YY18530		0.45	0.003	0.15	1.68	13.4	<0.02	<10	230	0.86	1.25	0.41	0.18	40.2	10.7	22
YY18531		0.41	0.001	0.08	2.00	17.0	<0.02	<10	230	1.02	1.48	0.50	0.16	42.1	14.4	20
YY18532		0.43	<0.001	0.08	2.73	11.6	<0.02	<10	300	1.29	5.92	0.73	0.25	41.2	12.5	11
YY18533		0.44	0.002	0.30	2.25	18.0	<0.02	<10	230	0.86	1.02	0.42	0.19	49.8	9.9	20
YY18534		0.39	<0.001	0.08	2.02	11.5	<0.02	<10	150	0.51	2.12	0.19	0.16	28.5	9.5	20
YY18535		0.34	0.001	0.14	2.12	14.3	<0.02	<10	190	0.63	1.69	0.28	0.21	30.0	10.9	25
YY18536		0.35	0.003	0.10	2.06	22.5	<0.02	<10	190	0.48	1.32	0.28	0.17	24.4	9.6	28
YY18537		0.36	0.001	0.44	2.21	43.7	<0.02	<10	200	0.52	8.04	0.39	0.27	23.1	9.2	26
YY18538		0.37	0.001	0.19	2.08	22.6	<0.02	<10	150	0.38	1.96	0.20	0.26	19.45	8.0	29
YY18539		0.32	0.003	0.06	1.65	14.5	<0.02	<10	200	0.34	1.21	0.33	0.11	24.3	8.7	29
YY18540		0.35	0.005	0.19	1.96	20.7	<0.02	<10	240	0.40	2.70	0.35	0.20	22.0	10.3	31
YY18541		0.37	0.002	0.17	2.20	27.2	<0.02	<10	380	0.50	3.90	0.39	0.38	21.4	17.5	40
YY18542		0.29	0.002	0.24	2.23	40.2	0.04	<10	190	0.42	4.24	0.25	0.30	21.3	11.0	42
YY18543		0.26	0.003	0.28	2.11	26.4	<0.02	<10	180	0.37	1.12	0.20	0.28	20.9	10.0	37
YY18544		0.33	0.003	0.13	1.87	20.1	<0.02	<10	220	0.39	2.05	0.34	0.20	22.6	11.1	41
YY18545		0.34	0.001	0.36	2.13	18.4	<0.02	<10	150	0.39	1.25	0.19	0.22	22.1	9.0	34
YY18546		0.28	0.001	0.56	2.22	66.5	<0.02	<10	200	0.45	4.51	0.52	0.57	19.00	8.6	29
YY18547		0.55	0.004	0.35	1.70	77.2	<0.02	<10	190	0.52	2.62	0.56	0.43	30.8	11.0	33
YY18548		0.39	0.003	0.23	1.78	24.2	<0.02	<10	220	0.38	1.92	0.34	0.25	27.6	9.5	31
YY18549		0.37	0.001	0.24	1.87	23.2	<0.02	<10	240	0.37	2.11	0.35	0.15	26.8	9.3	30
YY18550		0.33	0.004	0.23	1.76	17.8	<0.02	<10	180	0.50	1.32	0.26	0.22	22.7	6.5	26
YY18551		0.46	0.002	0.26	1.77	29.5	<0.02	<10	220	0.83	1.33	0.38	0.29	36.7	9.3	23
YY18552		0.44	<0.001	0.14	1.73	30.3	<0.02	<10	180	0.50	2.15	0.39	0.23	30.5	12.7	21
YY18553		0.42	0.002	0.14	1.59	19.5	<0.02	<10	250	0.53	1.53	0.44	0.25	38.3	9.4	27
YY18554		0.39	0.003	0.16	1.70	13.7	<0.02	<10	230	0.46	0.86	0.37	0.17	31.5	9.4	29
YY18555		0.41	0.005	0.18	1.55	21.5	<0.02	<10	180	0.39	1.66	0.39	0.23	27.6	9.1	30
YY18556		0.35	0.004	0.25	1.90	33.4	<0.02	<10	200	0.53	0.83	0.43	0.21	26.4	11.3	36
YY18557		0.27	0.002	0.50	2.23	32.7	<0.02	<10	190	0.82	1.40	0.73	0.23	26.6	9.2	32
YY18558		0.47	<0.001	0.11	3.45	19.7	<0.02	<10	150	1.57	1.09	1.45	0.25	46.5	12.4	13
YY18559		0.34	0.001	0.05	2.56	19.6	<0.02	<10	230	0.83	0.59	0.33	0.26	40.8	14.2	35
YY18560		0.41	0.002	0.04	2.23	16.2	<0.02	<10	150	0.52	0.66	0.24	0.16	31.3	8.0	28

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North Vancouver BC V7H 0A7
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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18521		2.00	29.3	3.70	6.82	0.06	0.02	0.03	0.025	0.10	20.6	21.5	0.46	294	15.55	0.02
YY18522		1.50	27.2	2.60	6.22	<0.05	0.02	0.04	0.030	0.06	14.1	16.0	0.55	404	1.63	0.02
YY18523		1.53	30.9	3.30	6.43	0.05	0.03	0.06	0.032	0.05	16.5	16.5	0.51	202	2.53	0.02
YY18524		0.98	21.2	2.42	4.80	<0.05	0.02	0.03	0.021	0.04	17.0	13.4	0.35	234	4.33	0.02
YY18525		1.22	20.3	2.91	5.71	<0.05	0.02	0.04	0.023	0.04	15.2	15.3	0.38	164	12.20	0.02
YY18526		1.25	34.8	2.41	5.12	0.05	0.03	0.03	0.024	0.04	17.2	19.0	0.40	218	14.30	0.02
YY18527		1.33	35.9	2.70	5.18	0.05	0.02	0.03	0.024	0.04	18.2	18.6	0.39	288	17.70	0.02
YY18528		1.51	40.0	2.76	5.60	0.05	0.03	0.03	0.022	0.04	20.0	21.9	0.42	280	19.75	0.02
YY18529		1.37	47.4	2.65	5.22	0.05	0.03	0.05	0.021	0.04	19.9	22.4	0.46	259	11.10	0.02
YY18530		2.27	79.2	2.91	6.49	0.06	0.03	0.02	0.026	0.06	23.6	19.4	0.54	449	11.00	0.02
YY18531		3.10	95.6	3.46	7.18	0.06	0.05	0.01	0.031	0.08	25.9	21.6	0.52	675	9.87	0.02
YY18532		4.87	155.0	3.11	8.80	0.06	0.06	0.01	0.029	0.11	28.1	24.9	0.59	604	9.44	0.02
YY18533		2.78	81.1	2.92	6.95	0.06	0.07	0.03	0.032	0.05	31.9	15.8	0.53	419	3.45	0.02
YY18534		2.74	50.8	3.54	9.14	<0.05	0.05	0.02	0.024	0.09	15.7	17.9	0.57	363	11.80	0.02
YY18535		2.40	49.5	3.02	7.28	0.05	0.03	0.02	0.025	0.07	16.1	18.9	0.56	373	2.93	0.02
YY18536		1.80	32.9	2.95	7.15	<0.05	0.03	0.03	0.028	0.05	12.8	18.0	0.51	303	2.00	0.02
YY18537		2.09	41.6	3.03	7.35	<0.05	0.04	0.01	0.032	0.06	13.1	27.6	0.53	347	6.10	0.02
YY18538		1.63	27.2	3.25	7.69	<0.05	0.06	0.03	0.032	0.06	10.2	21.0	0.51	250	1.33	0.01
YY18539		1.32	32.8	2.54	5.33	0.05	0.03	0.02	0.022	0.06	12.4	15.1	0.57	314	0.74	0.01
YY18540		1.78	49.9	3.04	6.37	0.05	0.04	0.03	0.034	0.07	10.9	17.8	0.64	387	0.76	0.02
YY18541		4.20	75.9	3.34	8.78	0.09	0.05	0.01	0.039	0.34	9.8	28.5	1.13	760	0.60	0.01
YY18542		1.98	47.3	2.91	7.02	0.05	0.06	0.03	0.031	0.11	10.4	20.3	0.73	337	0.85	0.02
YY18543		1.53	36.8	2.92	6.85	<0.05	0.04	0.03	0.040	0.06	10.3	21.5	0.62	336	0.98	0.01
YY18544		1.81	42.3	2.76	5.90	<0.05	0.03	0.02	0.025	0.08	11.3	18.9	0.72	387	0.69	0.02
YY18545		1.60	31.2	2.82	8.08	<0.05	0.04	0.03	0.030	0.05	11.1	16.5	0.51	283	1.31	0.01
YY18546		2.29	73.4	3.04	8.22	<0.05	0.04	0.02	0.038	0.07	10.7	32.1	0.63	361	10.15	0.02
YY18547		2.69	56.6	2.94	5.96	0.06	0.03	0.04	0.029	0.07	16.7	26.7	0.62	462	7.90	0.02
YY18548		1.72	36.0	2.62	6.38	0.06	0.04	0.02	0.025	0.05	14.9	19.1	0.63	292	1.40	0.02
YY18549		1.59	32.1	2.63	6.31	0.05	0.02	0.04	0.027	0.05	13.5	19.0	0.57	264	1.77	0.02
YY18550		1.50	33.6	2.49	6.53	<0.05	0.02	0.03	0.025	0.04	12.2	19.5	0.46	216	2.10	0.01
YY18551		2.39	58.3	2.89	7.10	0.05	0.03	0.02	0.027	0.07	21.1	22.8	0.53	359	3.97	0.01
YY18552		1.78	52.7	3.10	6.24	0.05	0.03	0.01	0.026	0.07	18.5	20.0	0.54	563	3.24	0.02
YY18553		1.57	45.1	2.94	5.90	0.06	0.07	0.02	0.025	0.07	20.8	15.7	0.56	396	2.10	0.02
YY18554		1.07	34.0	2.66	5.38	0.05	0.05	0.03	0.025	0.04	15.7	14.6	0.54	272	1.23	0.02
YY18555		1.23	28.2	2.73	5.34	0.06	0.02	0.03	0.024	0.06	15.1	15.0	0.46	311	2.69	0.02
YY18556		1.98	32.4	2.80	6.00	0.05	0.03	0.04	0.027	0.08	13.7	19.5	0.57	437	4.20	0.02
YY18557		4.36	38.2	2.56	8.07	0.05	0.02	0.04	0.028	0.10	16.1	21.2	0.62	338	4.19	0.02
YY18558		8.77	56.4	2.78	12.15	0.09	0.04	0.02	0.025	0.24	33.7	27.6	0.55	489	2.12	0.02
YY18559		2.20	40.4	3.40	7.65	0.06	0.11	0.02	0.034	0.07	21.3	20.5	0.62	397	1.77	0.01
YY18560		2.00	29.1	3.23	8.50	<0.05	0.04	0.02	0.028	0.05	18.2	15.2	0.46	237	1.99	0.01

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Project: CN

Finalized Date: 5-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198425

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18521		1.84	14.9	1170	63.2	15.8	<0.001	0.02	0.38	3.8	<0.2	0.4	52.7	<0.01	0.03	8.3
YY18522		1.40	21.3	680	22.2	11.2	<0.001	0.01	0.47	4.3	<0.2	0.5	35.7	<0.01	0.03	3.1
YY18523		1.46	19.8	790	27.7	11.2	<0.001	0.02	0.57	4.8	0.3	0.5	41.9	<0.01	0.05	4.2
YY18524		1.27	13.4	880	18.5	8.2	<0.001	0.02	0.41	3.4	0.6	0.4	47.0	<0.01	0.02	6.0
YY18525		1.33	13.8	850	21.0	8.8	<0.001	0.02	0.41	3.1	<0.2	0.5	49.7	<0.01	0.02	5.6
YY18526		1.30	13.5	800	21.2	9.3	<0.001	0.02	0.37	4.0	0.5	0.4	76.0	<0.01	0.02	7.4
YY18527		1.25	13.0	900	22.7	9.6	<0.001	0.02	0.35	3.8	0.6	0.4	81.4	<0.01	0.03	9.2
YY18528		1.16	13.0	980	20.1	11.0	<0.001	0.02	0.32	3.8	0.6	0.4	94.0	<0.01	0.02	15.8
YY18529		1.03	13.3	880	20.1	9.9	<0.001	0.01	0.33	4.0	0.4	0.4	102.5	<0.01	0.02	10.5
YY18530		1.14	14.0	880	21.8	13.8	<0.001	0.01	0.48	4.1	0.3	0.5	168.5	<0.01	0.03	9.3
YY18531		0.95	13.2	1070	21.1	16.9	<0.001	0.02	0.40	4.1	0.4	0.5	214	<0.01	0.04	23.5
YY18532		1.08	6.8	1250	28.9	16.8	<0.001	0.01	0.29	3.4	0.4	0.6	622	<0.01	0.04	32.4
YY18533		0.75	13.1	430	32.7	10.5	<0.001	0.01	0.38	4.6	0.3	0.5	293	<0.01	0.02	20.9
YY18534		2.02	10.7	530	15.5	15.9	<0.001	0.03	0.38	3.9	0.4	0.7	70.4	<0.01	0.04	16.1
YY18535		1.55	17.1	600	19.8	14.1	<0.001	0.01	0.38	3.9	0.2	0.5	66.8	<0.01	0.03	7.2
YY18536		1.49	18.6	370	29.1	9.5	<0.001	0.01	0.42	4.1	0.3	0.6	47.2	<0.01	0.03	3.8
YY18537		1.71	17.0	420	35.7	9.8	<0.001	0.01	0.40	3.7	0.3	0.5	63.8	<0.01	0.04	4.9
YY18538		2.08	16.8	440	25.3	11.4	<0.001	0.01	0.38	3.7	0.4	0.6	22.1	<0.01	0.04	3.3
YY18539		1.25	18.7	550	18.6	8.8	<0.001	0.01	0.34	4.1	0.3	0.4	25.5	<0.01	0.03	2.6
YY18540		1.66	21.0	510	33.8	10.9	<0.001	0.01	0.39	4.9	0.3	0.5	27.7	<0.01	0.04	2.7
YY18541		2.80	36.6	660	56.7	34.3	<0.001	0.01	0.33	8.4	0.2	0.9	35.8	<0.01	0.05	3.5
YY18542		2.50	25.9	490	49.7	14.6	<0.001	0.01	0.57	5.0	0.4	0.5	28.0	<0.01	0.04	3.2
YY18543		1.69	24.1	300	29.7	10.4	<0.001	0.01	0.40	4.0	0.3	0.5	22.5	<0.01	0.03	2.3
YY18544		1.24	22.6	560	24.1	11.3	<0.001	0.01	0.37	3.7	0.2	0.4	32.8	<0.01	0.03	2.2
YY18545		1.90	18.6	310	25.8	10.7	<0.001	0.01	0.34	3.9	0.3	0.6	22.6	<0.01	0.03	3.0
YY18546		2.16	17.2	390	47.2	14.2	<0.001	0.01	0.38	3.6	0.2	0.6	57.2	<0.01	0.03	4.0
YY18547		1.57	19.9	750	35.9	12.9	<0.001	0.02	0.44	5.4	0.3	0.4	43.3	<0.01	0.03	5.8
YY18548		1.77	19.4	620	29.9	11.5	<0.001	0.01	0.34	4.4	0.4	0.5	36.8	<0.01	0.03	4.4
YY18549		1.58	18.6	540	30.2	12.4	<0.001	0.01	0.33	4.4	0.3	0.5	32.3	<0.01	0.03	3.6
YY18550		1.51	14.6	450	21.8	11.4	<0.001	0.01	0.27	3.5	0.3	0.5	29.4	<0.01	0.03	3.1
YY18551		1.52	14.6	780	24.8	13.8	<0.001	0.01	0.39	3.7	0.2	0.5	81.8	<0.01	0.03	8.4
YY18552		1.49	13.2	1050	28.4	12.1	<0.001	0.01	0.43	2.8	0.3	0.4	101.5	<0.01	0.02	9.7
YY18553		1.35	18.8	820	21.0	12.6	<0.001	0.01	0.52	4.8	0.4	0.5	65.8	<0.01	0.03	13.0
YY18554		1.22	20.6	680	16.2	8.3	<0.001	0.01	0.49	4.7	0.3	0.5	38.9	<0.01	0.02	4.2
YY18555		1.36	17.1	810	23.0	10.7	<0.001	0.02	0.40	3.9	0.4	0.4	34.2	<0.01	0.03	4.2
YY18556		1.38	21.4	770	31.0	12.9	<0.001	0.03	0.39	4.0	0.5	0.4	39.2	<0.01	0.03	1.9
YY18557		1.56	20.0	930	48.5	16.6	<0.001	0.04	0.43	3.4	0.5	0.5	87.8	0.01	0.02	3.3
YY18558		1.61	9.6	2000	25.7	34.5	<0.001	0.01	0.32	3.1	0.4	0.6	276	<0.01	0.04	19.6
YY18559		1.51	24.5	580	26.8	14.5	<0.001	0.01	0.54	5.4	0.3	0.6	53.8	<0.01	0.03	11.7
YY18560		1.79	15.5	650	24.2	11.5	<0.001	0.01	0.41	3.9	0.4	0.7	50.1	<0.01	0.03	8.7

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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VANCOUVER BC V6B 1L8

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CERTIFICATE OF ANALYSIS WH19198425

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18521		0.087	0.17	3.00	82	16.75	5.90	59	0.7
YY18522		0.100	0.16	1.40	61	0.62	5.69	63	0.9
YY18523		0.090	0.17	2.04	70	1.15	6.34	65	1.1
YY18524		0.075	0.11	1.84	53	2.30	6.22	49	0.9
YY18525		0.075	0.13	1.52	67	3.34	4.42	52	0.8
YY18526		0.069	0.10	3.11	54	2.53	6.65	53	1.3
YY18527		0.065	0.10	3.57	56	1.76	6.79	52	1.0
YY18528		0.066	0.13	4.83	59	5.37	6.85	56	1.2
YY18529		0.076	0.13	5.01	57	3.72	7.71	57	1.1
YY18530		0.089	0.13	3.85	58	2.68	7.53	69	1.4
YY18531		0.072	0.21	5.35	65	2.91	6.75	66	2.0
YY18532		0.062	0.35	7.26	54	1.99	5.05	90	2.4
YY18533		0.058	0.23	3.72	56	4.77	7.46	102	3.3
YY18534		0.106	0.19	3.27	70	5.65	3.51	56	2.2
YY18535		0.088	0.15	2.89	64	5.02	4.85	61	1.2
YY18536		0.083	0.13	1.39	66	1.16	3.97	59	1.3
YY18537		0.077	0.14	1.75	67	3.50	3.64	70	1.5
YY18538		0.099	0.11	0.64	73	0.61	3.25	65	2.7
YY18539		0.101	0.10	0.94	60	0.69	5.75	58	1.3
YY18540		0.123	0.11	0.86	71	0.46	5.38	69	1.8
YY18541		0.239	0.27	0.55	89	1.43	5.58	104	2.2
YY18542		0.142	0.15	0.67	77	0.40	4.99	85	2.3
YY18543		0.111	0.12	0.78	71	0.42	3.67	75	1.8
YY18544		0.133	0.14	0.85	78	0.63	4.23	64	1.6
YY18545		0.118	0.14	0.81	80	0.81	3.62	60	2.0
YY18546		0.106	0.14	2.34	74	5.51	3.04	99	1.8
YY18547		0.111	0.14	13.85	69	6.11	7.62	94	1.8
YY18548		0.116	0.14	1.54	63	0.76	5.46	70	1.5
YY18549		0.099	0.13	1.75	62	0.75	5.95	66	1.3
YY18550		0.079	0.12	2.07	59	1.22	3.63	54	1.1
YY18551		0.083	0.15	4.37	62	2.28	5.52	63	1.1
YY18552		0.087	0.14	2.39	63	4.20	4.45	64	1.3
YY18553		0.107	0.14	1.94	64	1.43	8.40	68	3.8
YY18554		0.087	0.10	1.61	57	0.69	7.83	64	2.1
YY18555		0.078	0.11	2.65	61	1.34	6.79	57	1.0
YY18556		0.091	0.13	2.76	65	1.26	6.51	68	1.0
YY18557		0.096	0.21	3.36	59	0.77	5.34	75	0.8
YY18558		0.096	0.34	4.12	52	1.29	5.33	71	1.4
YY18559		0.102	0.14	1.61	71	1.10	6.23	68	5.3
YY18560		0.098	0.15	2.43	73	1.04	4.57	54	2.0

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18561		0.39	0.002	0.13	2.22	20.0	<0.02	<10	240	0.82	0.70	0.44	0.21	33.3	8.9	31
YY18562		0.32	<0.001	0.07	3.85	18.7	<0.02	<10	330	0.88	0.25	0.51	0.23	25.1	16.2	138
YY18563		0.45	0.003	0.21	2.70	195.0	<0.02	<10	470	0.65	0.63	0.83	1.58	29.9	21.9	115
YY18564		0.36	0.001	0.06	2.99	8.5	<0.02	<10	300	0.66	0.17	0.66	0.15	21.4	19.4	108
YY18565		0.42	0.003	0.07	2.48	9.7	<0.02	<10	260	0.47	0.24	0.33	0.17	16.45	14.0	97
YY18566		0.39	0.001	0.12	2.13	10.3	<0.02	<10	120	0.45	0.45	0.19	0.14	15.10	9.4	53
YY18567		0.37	0.001	0.18	2.42	7.2	<0.02	<10	200	0.46	0.20	0.40	0.14	13.35	11.7	99
YY18568		0.45	0.001	0.05	2.53	7.7	<0.02	<10	260	0.49	0.14	0.41	0.20	15.90	13.9	93
YY18569		0.35	0.001	0.05	2.41	7.7	<0.02	<10	260	0.50	0.16	0.33	0.13	18.10	13.7	69
YY18570		0.39	0.001	0.15	1.98	7.8	<0.02	<10	160	0.37	0.33	0.23	0.14	15.85	9.5	46
YY18571		0.36	<0.001	0.12	1.98	8.5	<0.02	<10	170	0.36	0.62	0.27	0.21	15.70	10.6	45
YY18572		0.36	0.001	0.21	1.97	14.1	<0.02	<10	180	0.42	1.27	0.23	0.24	18.05	8.9	38
YY18573		0.34	0.001	0.23	1.85	44.6	<0.02	<10	180	0.36	2.11	0.28	0.32	19.00	9.1	38
YY18574		0.47	0.017	9.90	2.01	77.4	<0.02	<10	160	0.53	6.71	0.32	1.28	21.6	8.2	38
YY18575		0.48	0.002	0.32	1.92	21.3	<0.02	<10	210	0.35	1.07	0.34	0.23	21.7	10.1	43
YY18576		0.50	0.003	0.23	2.04	22.6	<0.02	<10	220	0.43	0.92	0.27	0.22	22.1	8.5	35
YY18577		0.41	0.002	0.21	2.27	20.9	<0.02	<10	200	0.51	1.08	0.30	0.26	26.2	10.7	29
YY18578		0.40	0.004	0.38	1.86	17.7	<0.02	<10	150	0.39	0.81	0.26	0.30	25.7	8.8	27
YY18579		0.35	<0.001	1.04	1.74	18.4	<0.02	<10	160	0.53	1.00	0.28	0.27	22.0	4.4	15
YY18580		0.41	0.001	0.31	1.73	18.2	<0.02	<10	120	0.53	1.15	0.26	0.24	25.5	4.7	19
YY18581		0.46	0.001	0.28	1.70	51.2	<0.02	<10	140	0.49	1.01	0.39	0.29	28.1	6.6	19
YY18582		0.48	0.001	0.46	2.41	76.5	<0.02	<10	270	0.85	2.06	0.51	0.58	35.4	11.6	21
YY18583		0.47	0.003	0.92	2.33	46.4	<0.02	<10	260	0.65	1.01	0.60	0.33	29.9	13.1	26
YY18584		0.37	0.002	0.37	2.25	19.0	<0.02	<10	250	0.41	0.81	0.58	0.31	21.4	10.2	30
YY18585		0.49	0.001	0.20	2.46	11.0	<0.02	<10	340	0.44	0.43	0.50	0.18	17.35	14.8	32
YY18586		0.39	<0.001	0.45	1.85	14.1	<0.02	<10	100	0.26	0.54	0.17	0.12	20.8	6.2	23
YY18587		0.51	0.001	0.07	2.70	17.1	<0.02	<10	200	0.62	0.43	0.36	0.25	33.7	12.1	30
YY18588		0.30	0.002	0.31	2.16	13.4	<0.02	<10	210	0.51	0.66	0.33	0.15	26.0	13.2	31
YY18589		0.50	<0.001	0.27	1.98	19.7	<0.02	<10	180	0.45	0.52	0.37	0.16	26.1	17.5	32
YY18590		0.34	<0.001	0.41	1.29	21.5	<0.02	<10	110	0.36	0.55	0.16	0.21	20.5	5.2	15
YY18591		0.47	0.002	0.12	2.30	27.1	<0.02	<10	180	0.38	0.57	0.24	0.18	18.25	10.8	47
YY18592		0.32	0.001	0.17	1.67	17.2	<0.02	<10	130	0.30	0.29	0.22	0.21	15.05	7.4	39
YY18593		0.38	0.002	0.14	2.11	30.3	<0.02	<10	190	0.38	0.41	0.32	0.24	16.90	10.3	52
YY18594		0.40	0.002	0.15	2.10	33.8	<0.02	<10	270	0.47	0.42	0.50	0.28	23.2	12.2	57
YY18595		0.33	0.001	0.42	2.30	38.5	<0.02	<10	200	0.61	0.40	0.37	0.39	20.4	10.5	54

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 5-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198425

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18561		2.41	45.2	3.30	6.86	0.06	0.04	0.02	0.029	0.06	19.0	19.6	0.58	367	2.09	0.02
YY18562		9.68	38.0	4.54	14.30	0.10	0.06	0.02	0.041	0.53	11.8	38.4	1.66	581	5.38	0.03
YY18563		6.11	68.2	3.59	9.29	0.08	0.03	0.01	0.049	0.44	15.1	23.1	1.33	792	7.76	0.03
YY18564		6.09	37.7	3.96	9.97	0.08	0.04	0.02	0.025	0.60	11.5	31.4	1.50	407	0.79	0.02
YY18565		5.12	27.3	3.51	10.70	<0.05	0.04	0.03	0.021	0.35	8.4	21.4	1.05	315	1.12	0.02
YY18566		2.57	20.2	3.37	8.10	<0.05	0.04	0.04	0.026	0.07	8.0	22.5	0.55	224	1.24	0.01
YY18567		4.52	20.2	3.02	8.82	0.05	0.03	0.04	0.019	0.28	7.0	22.8	1.04	248	0.77	0.02
YY18568		4.97	24.8	3.30	8.78	0.06	0.05	0.02	0.019	0.35	8.4	30.1	1.18	262	0.72	0.02
YY18569		3.55	31.5	3.11	8.15	0.05	0.05	0.01	0.022	0.22	9.0	24.1	0.96	309	0.86	0.02
YY18570		2.77	29.0	2.79	7.51	<0.05	0.03	0.02	0.022	0.10	8.0	16.1	0.63	279	1.08	0.02
YY18571		2.33	29.5	2.72	6.39	<0.05	0.03	0.03	0.022	0.11	8.0	17.4	0.67	339	0.77	0.01
YY18572		2.46	31.3	2.68	6.71	<0.05	0.04	0.05	0.025	0.09	9.0	15.0	0.59	277	0.99	0.02
YY18573		2.49	39.0	2.68	7.16	0.05	0.04	0.02	0.026	0.12	9.5	14.8	0.64	314	1.67	0.02
YY18574		2.26	63.6	2.67	6.52	<0.05	0.04	0.04	0.075	0.08	12.0	17.0	0.61	269	1.65	0.02
YY18575		2.22	32.2	2.62	6.19	0.05	0.05	0.03	0.025	0.13	10.9	16.8	0.72	318	1.13	0.02
YY18576		1.78	34.4	2.66	6.81	<0.05	0.03	0.03	0.025	0.07	11.6	14.9	0.56	242	1.84	0.02
YY18577		4.75	45.9	3.53	8.30	0.05	0.03	0.02	0.029	0.11	14.9	24.0	0.61	442	5.59	0.02
YY18578		2.99	36.9	2.86	7.82	0.05	0.03	0.02	0.027	0.08	14.2	15.2	0.49	345	4.02	0.02
YY18579		5.95	37.0	2.46	8.63	<0.05	0.02	0.03	0.022	0.11	13.4	10.7	0.40	234	7.31	0.02
YY18580		2.53	17.9	2.23	8.28	<0.05	0.05	0.02	0.022	0.04	15.1	12.7	0.35	177	6.45	0.01
YY18581		2.52	19.3	2.68	7.52	0.05	0.03	0.01	0.051	0.06	17.5	14.5	0.40	311	9.26	0.01
YY18582		3.98	48.9	3.11	8.66	0.06	0.04	0.02	0.032	0.19	20.4	28.0	0.66	352	14.75	0.02
YY18583		3.92	31.9	3.10	7.19	0.06	0.02	0.04	0.028	0.18	16.9	21.5	0.68	582	26.5	0.03
YY18584		3.17	45.7	2.16	7.14	0.05	0.03	0.04	0.024	0.10	11.1	21.3	0.69	284	4.32	0.03
YY18585		4.09	47.3	3.08	8.15	0.06	0.02	0.03	0.024	0.25	8.9	21.7	0.94	573	0.84	0.02
YY18586		1.87	13.1	2.40	7.31	<0.05	0.03	0.03	0.025	0.05	11.5	11.9	0.40	193	3.69	0.02
YY18587		2.15	23.9	3.38	7.60	<0.05	0.10	0.03	0.034	0.07	19.5	17.7	0.53	322	1.77	0.02
YY18588		2.77	20.7	2.66	6.83	<0.05	0.02	0.04	0.027	0.06	13.9	15.9	0.52	641	4.37	0.02
YY18589		3.31	24.4	3.02	6.99	0.05	0.02	0.03	0.023	0.09	15.8	15.8	0.54	614	7.00	0.02
YY18590		2.70	26.6	2.49	7.54	<0.05	0.02	0.02	0.023	0.06	11.9	7.5	0.22	302	8.42	0.02
YY18591		2.28	25.5	3.04	7.09	<0.05	0.07	0.02	0.024	0.08	9.4	19.2	0.66	280	1.19	0.02
YY18592		2.21	20.8	2.40	7.00	<0.05	0.03	0.02	0.019	0.08	8.1	14.0	0.57	203	1.04	0.02
YY18593		2.84	28.3	2.87	7.61	<0.05	0.04	0.01	0.023	0.16	8.8	18.7	0.78	293	0.89	0.02
YY18594		3.54	37.1	3.06	7.41	0.06	0.04	0.01	0.022	0.24	12.0	21.9	0.94	334	0.78	0.02
YY18595		4.51	43.7	2.92	8.68	0.05	0.04	0.02	0.023	0.26	10.3	19.2	0.84	294	1.04	0.02

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North Vancouver BC V7H 0A7
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Project: CN

Finalized Date: 5-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198425

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18561		1.28	19.5	690	27.8	13.5	<0.001	0.01	0.49	4.6	0.3	0.6	62.9	<0.01	0.03	9.5
YY18562		7.31	39.2	1060	36.9	53.0	<0.001	0.01	0.24	11.6	0.5	0.7	100.5	0.01	0.05	5.2
YY18563		3.57	49.8	1400	47.4	41.5	<0.001	0.04	0.68	8.0	0.9	0.4	92.9	<0.01	0.05	3.9
YY18564		4.20	67.8	870	11.1	51.7	<0.001	0.01	0.28	7.7	0.2	0.7	77.1	0.01	0.03	5.0
YY18565		5.54	53.3	500	10.6	36.9	<0.001	0.02	0.35	5.8	0.3	0.6	54.2	0.01	0.05	3.0
YY18566		3.36	29.6	330	14.5	14.3	<0.001	0.03	0.47	3.2	0.4	0.6	22.4	<0.01	0.06	2.0
YY18567		4.48	52.0	480	11.8	25.8	<0.001	0.04	0.35	4.1	0.3	0.4	50.2	0.01	0.05	1.9
YY18568		4.92	53.0	500	12.6	30.9	<0.001	0.02	0.38	5.8	0.4	0.5	47.8	0.01	0.03	3.0
YY18569		3.54	42.7	560	9.8	22.4	<0.001	0.01	0.37	5.2	0.3	0.6	40.7	0.01	0.03	2.8
YY18570		2.32	26.5	400	20.2	15.4	<0.001	0.01	0.34	3.3	0.3	0.6	23.4	<0.01	0.03	1.3
YY18571		2.34	26.5	590	20.1	14.9	<0.001	0.01	0.35	3.6	0.5	0.6	23.3	<0.01	0.03	1.5
YY18572		2.59	23.6	390	21.8	17.4	<0.001	0.01	0.34	4.1	0.2	0.5	25.6	<0.01	0.04	1.8
YY18573		2.51	23.7	520	27.0	17.1	<0.001	0.01	0.40	4.3	0.3	0.5	31.6	<0.01	0.04	2.2
YY18574		2.16	22.1	490	1440	14.2	<0.001	0.01	13.00	4.8	0.3	0.5	31.0	<0.01	0.03	2.9
YY18575		2.12	24.1	550	45.2	15.1	<0.001	0.01	0.56	4.8	0.3	0.5	30.7	<0.01	0.03	2.8
YY18576		1.77	21.5	470	27.9	11.6	<0.001	<0.01	0.40	4.4	0.4	0.5	29.7	<0.01	0.04	2.0
YY18577		1.75	22.6	570	30.2	22.2	<0.001	0.01	0.57	3.8	0.3	0.6	46.5	<0.01	0.05	3.9
YY18578		1.44	17.8	570	23.0	15.7	<0.001	0.01	0.44	2.8	0.3	0.6	45.0	<0.01	0.03	1.9
YY18579		1.50	9.7	500	29.0	24.3	<0.001	0.02	0.43	2.0	0.3	0.7	98.7	0.01	0.05	2.0
YY18580		1.86	10.3	300	35.2	10.6	<0.001	<0.01	0.33	2.9	0.3	0.7	50.3	<0.01	0.03	8.1
YY18581		1.56	11.7	620	97.1	11.1	<0.001	<0.01	0.54	2.9	0.2	0.6	93.4	<0.01	0.03	9.5
YY18582		2.40	15.7	940	80.4	26.9	<0.001	0.01	0.41	3.5	0.2	0.6	81.6	0.01	0.05	7.6
YY18583		1.83	15.8	1030	62.5	23.5	<0.001	0.03	0.36	5.3	0.5	0.5	88.1	0.01	0.03	3.4
YY18584		1.69	19.5	690	40.3	12.8	<0.001	0.05	0.34	4.9	0.5	0.5	65.7	0.01	0.02	1.7
YY18585		2.31	21.9	680	14.6	23.3	<0.001	0.03	0.27	7.2	0.3	0.6	64.7	0.01	0.04	1.8
YY18586		1.75	14.2	260	32.8	10.3	<0.001	0.01	0.45	3.1	0.2	0.6	22.9	<0.01	0.04	2.1
YY18587		1.98	21.4	760	35.7	12.7	<0.001	0.01	0.45	4.5	0.3	0.6	52.3	0.01	0.04	8.4
YY18588		1.77	18.8	640	29.5	13.1	<0.001	0.03	0.37	3.8	0.3	0.6	44.5	<0.01	0.03	2.7
YY18589		1.97	19.2	900	32.2	18.2	<0.001	0.02	0.31	3.4	0.3	0.5	54.3	<0.01	0.04	2.5
YY18590		1.41	7.6	650	62.1	17.7	<0.001	0.01	0.42	1.8	0.5	0.7	29.6	<0.01	0.06	2.3
YY18591		2.30	26.3	340	23.3	12.1	<0.001	0.01	0.35	4.3	0.2	0.6	27.5	<0.01	0.04	3.5
YY18592		2.53	22.0	370	18.2	13.0	<0.001	0.01	0.31	2.9	0.2	0.5	26.7	<0.01	0.03	1.3
YY18593		2.85	28.2	560	26.2	19.6	<0.001	0.01	0.31	4.2	0.3	0.5	40.2	<0.01	0.04	1.7
YY18594		2.98	31.9	710	30.8	27.3	<0.001	0.01	0.31	5.8	0.4	0.5	54.3	<0.01	0.05	3.1
YY18595		4.01	31.1	640	20.7	26.5	<0.001	0.02	0.28	5.3	0.4	0.5	44.1	0.01	0.04	2.0

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Finalized Date: 5-SEP-2019
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CERTIFICATE OF ANALYSIS WH19198425

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18561		0.104	0.14	5.12	71	1.52	7.49	74	2.6
YY18562		0.394	0.50	1.20	121	0.35	11.30	131	2.8
YY18563		0.292	0.40	1.67	113	0.28	9.13	443	1.6
YY18564		0.317	0.32	0.83	110	0.80	5.64	59	1.6
YY18565		0.312	0.25	0.79	112	0.14	3.39	56	1.8
YY18566		0.174	0.15	0.48	85	0.32	2.44	46	1.9
YY18567		0.273	0.19	0.50	98	0.14	2.53	43	1.3
YY18568		0.288	0.23	0.55	101	0.19	3.31	50	2.2
YY18569		0.229	0.19	0.72	88	0.25	4.11	49	2.2
YY18570		0.158	0.13	0.56	76	0.23	2.82	52	1.6
YY18571		0.165	0.11	0.52	73	0.28	3.50	57	1.5
YY18572		0.149	0.13	0.63	73	0.67	3.54	57	1.7
YY18573		0.157	0.13	0.70	77	0.71	3.95	74	1.7
YY18574		0.145	0.13	1.54	73	0.51	4.83	114	2.0
YY18575		0.174	0.13	1.13	74	0.38	4.74	63	2.0
YY18576		0.121	0.12	1.34	69	0.43	4.81	60	1.4
YY18577		0.114	0.24	1.71	77	2.83	4.43	78	1.4
YY18578		0.092	0.16	1.47	68	1.42	3.96	64	1.0
YY18579		0.092	0.18	2.22	57	5.39	3.52	62	0.8
YY18580		0.096	0.15	1.29	64	1.61	3.35	49	2.3
YY18581		0.084	0.13	1.46	68	1.79	3.70	100	1.4
YY18582		0.168	0.29	2.56	73	0.87	6.31	157	1.7
YY18583		0.112	0.28	3.17	74	0.68	6.74	105	0.9
YY18584		0.136	0.18	5.77	61	0.36	5.75	84	1.0
YY18585		0.185	0.24	0.75	86	0.31	4.59	77	1.1
YY18586		0.088	0.12	0.53	62	0.53	3.08	50	1.2
YY18587		0.099	0.13	1.00	73	0.36	5.60	68	4.3
YY18588		0.096	0.16	1.62	64	1.95	5.18	56	0.9
YY18589		0.113	0.18	1.95	78	1.73	4.08	57	0.8
YY18590		0.081	0.21	1.74	62	3.52	2.26	76	0.7
YY18591		0.165	0.14	0.65	80	0.31	3.62	59	3.1
YY18592		0.156	0.12	0.54	72	0.20	2.72	49	1.3
YY18593		0.194	0.16	0.68	84	0.21	3.89	74	1.5
YY18594		0.231	0.23	0.87	91	0.20	6.97	81	1.8
YY18595		0.213	0.18	1.07	88	0.21	6.10	77	1.4

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Project: CN

Finalized Date: 5-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198425

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

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

LABORATORY ADDRESSES

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

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41

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Finalized Date: 2-SEP-2019
Account: RCM

CERTIFICATE WH19198431

Project: CN

This report is for 125 Soil samples submitted to our lab in Whitehorse, YT, Canada on 10-AUG-2019.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE	

SAMPLE PREPARATION

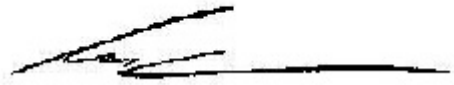
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS41	Ultra Trace Aqua Regia ICP-MS	

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

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

Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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Project: CN

Finalized Date: 2-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198431

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
YY18601		0.38	0.001	0.24	2.32	172.0	<0.02	<10	240	0.62	4.77	0.31	0.45	20.4	20.8	43
YY18602		0.32	0.002	0.09	2.30	11.9	<0.02	<10	300	0.70	1.91	0.40	0.26	20.3	15.3	55
YY18603		0.33	0.003	0.14	1.88	21.8	<0.02	<10	180	0.38	1.24	0.24	0.30	16.85	11.0	46
YY18604		0.34	0.003	0.39	2.07	77.8	<0.02	<10	230	0.59	3.10	0.34	0.92	18.10	13.6	46
YY18605		0.28	0.002	0.18	2.08	33.7	<0.02	<10	150	0.41	1.59	0.15	0.50	14.90	8.0	43
YY18606		0.26	0.006	0.28	2.46	35.4	<0.02	<10	270	0.69	1.11	0.43	0.60	20.5	17.9	46
YY18607		0.35	0.005	0.57	2.32	243	<0.02	<10	340	0.64	2.40	0.52	0.67	22.1	16.5	57
YY18608		0.39	0.001	0.08	2.14	8.7	<0.02	<10	160	0.61	0.36	0.18	0.73	32.0	12.6	41
YY18609		0.41	0.007	0.35	2.26	11.2	<0.02	<10	340	0.77	0.46	0.59	0.25	39.6	11.4	31
YY18610		0.33	0.002	0.49	2.13	11.5	<0.02	<10	280	0.73	0.38	0.44	0.40	38.7	10.4	31
YY18611		0.46	0.004	0.28	1.89	10.7	<0.02	<10	200	0.53	0.26	0.28	0.18	28.0	9.9	34
YY18612		0.49	0.004	0.17	1.77	7.2	<0.02	<10	170	0.46	0.21	0.23	0.16	30.0	7.4	36
YY18613		0.42	0.004	0.27	1.96	7.8	<0.02	<10	240	0.40	0.18	0.29	0.32	26.1	11.2	55
YY18614		0.40	0.001	0.13	1.91	7.5	<0.02	<10	140	0.41	0.18	0.20	0.16	33.5	10.7	47
YY18615		0.42	0.003	0.10	2.12	10.0	<0.02	<10	140	0.49	0.21	0.27	0.14	31.0	12.6	42
YY18616		0.33	<0.001	0.07	1.61	5.7	<0.02	<10	90	0.41	0.26	0.17	0.12	46.0	9.1	30
YY18617		0.44	0.001	0.12	2.01	24.7	<0.02	<10	120	0.55	0.28	0.13	0.15	56.1	14.4	34
YY18618		0.39	0.001	0.05	2.42	32.6	<0.02	<10	180	0.58	0.20	0.20	0.11	45.3	17.0	45
YY18619		0.34	<0.001	0.06	1.78	14.9	<0.02	<10	80	0.52	0.28	0.14	0.09	53.3	12.0	33
YY18620		0.38	0.001	0.06	1.96	8.5	<0.02	<10	130	0.50	0.23	0.23	0.11	44.4	11.8	32
YY18621		0.47	0.001	0.08	1.71	6.3	<0.02	<10	130	0.45	0.17	0.18	0.11	33.8	8.6	23
YY18622		0.38	0.001	0.07	2.95	11.9	<0.02	<10	150	1.16	0.39	0.11	0.13	39.3	11.8	32
YY18623		0.36	0.005	0.04	2.75	12.0	<0.02	<10	130	0.75	0.21	0.16	0.15	28.5	12.0	34
YY18624		0.36	0.001	0.05	1.71	13.9	<0.02	<10	80	0.31	0.31	0.10	0.09	23.4	5.3	23
YY18625		0.40	0.001	0.06	1.84	8.2	<0.02	<10	90	0.64	0.29	0.16	0.13	29.2	7.7	23
YY18626		0.50	<0.001	0.09	2.35	6.8	<0.02	<10	130	0.58	0.30	0.26	0.06	47.8	14.6	37
YY18627		0.53	0.004	0.14	2.40	11.1	<0.02	<10	180	0.57	0.27	0.37	0.14	45.7	14.0	42
YY18628		0.45	0.002	0.10	1.85	7.6	<0.02	<10	160	0.48	0.21	0.32	0.16	51.0	10.8	33
YY18629		0.45	0.012	0.11	2.15	8.0	<0.02	<10	130	0.70	0.25	0.27	0.14	68.7	17.3	33
YY18630		0.39	0.003	0.10	2.09	10.4	<0.02	<10	100	0.68	0.33	0.13	0.10	79.7	18.0	36
YY18631		0.47	0.007	0.38	1.99	24.6	<0.02	<10	90	0.53	0.33	0.17	0.13	54.6	12.4	45
YY18632		0.50	0.003	0.22	1.79	6.4	<0.02	<10	130	0.47	0.30	0.19	0.16	50.9	10.0	43
YY18633		0.39	0.003	0.21	1.70	5.3	<0.02	<10	140	0.51	0.33	0.23	0.16	62.8	11.9	46
YY18634		0.50	0.005	0.30	1.94	9.0	<0.02	<10	180	0.50	0.32	0.29	0.17	37.9	20.1	62
YY18635		0.41	0.004	0.19	1.71	5.5	<0.02	<10	160	0.40	0.19	0.23	0.18	24.7	14.7	45
YY18636		0.46	0.004	0.18	1.75	6.5	<0.02	<10	190	0.41	0.25	0.25	0.25	26.1	23.9	45
YY18637		0.41	0.005	0.12	2.03	4.9	<0.02	<10	170	0.43	0.20	0.25	0.12	23.9	13.6	69
YY18638		0.45	0.006	0.14	1.99	5.4	<0.02	<10	220	0.45	0.19	0.46	0.21	23.9	15.2	66
YY18639		0.43	0.004	0.15	1.71	5.9	<0.02	<10	140	0.42	0.22	0.33	0.17	24.4	12.9	57
YY18640		0.37	0.005	0.20	1.65	5.9	<0.02	<10	200	0.55	0.50	0.50	0.16	34.4	11.6	37

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18601		8.78	63.8	3.65	7.54	0.06	0.04	0.01	0.056	0.39	9.4	30.0	0.98	556	1.15	0.01
YY18602		5.08	49.1	3.35	8.06	0.07	0.04	0.02	0.031	0.32	10.0	29.1	0.94	487	1.03	0.01
YY18603		2.75	42.3	3.25	7.09	0.05	0.04	0.03	0.023	0.18	8.7	22.1	0.74	291	1.12	0.01
YY18604		4.53	53.8	3.09	8.25	0.05	0.05	0.07	0.033	0.23	8.7	23.0	0.74	425	1.08	0.01
YY18605		3.03	44.5	3.74	10.25	<0.05	0.05	0.04	0.028	0.15	7.6	19.3	0.64	252	1.45	0.02
YY18606		4.37	87.1	3.43	8.88	0.05	0.04	0.03	0.030	0.24	10.7	26.6	0.73	489	1.02	0.02
YY18607		4.70	72.0	3.63	8.89	0.09	0.03	0.02	0.035	0.44	11.6	31.0	1.04	499	1.09	0.02
YY18608		3.77	27.2	3.23	7.11	<0.05	0.03	0.03	0.032	0.07	13.6	22.5	0.77	578	1.66	0.01
YY18609		3.81	37.7	3.04	6.84	0.05	0.03	0.05	0.031	0.09	25.1	16.9	0.56	738	1.65	0.02
YY18610		2.70	31.5	2.95	6.78	0.05	0.02	0.05	0.031	0.07	27.1	16.4	0.54	723	1.69	0.02
YY18611		2.02	26.9	2.65	5.79	<0.05	0.02	0.05	0.029	0.07	16.3	17.2	0.68	450	1.52	0.01
YY18612		2.61	29.5	2.52	5.48	0.06	0.02	0.03	0.025	0.09	16.3	16.6	0.69	271	1.23	0.01
YY18613		1.64	62.4	2.94	7.08	0.05	0.02	0.02	0.028	0.10	16.2	16.4	0.87	358	1.53	0.02
YY18614		1.91	29.4	2.95	7.15	0.05	0.02	0.02	0.025	0.16	18.4	18.2	0.71	285	1.15	0.02
YY18615		2.19	24.0	3.13	6.78	0.06	0.03	0.04	0.026	0.21	16.5	21.6	0.71	302	0.85	0.01
YY18616		2.95	24.5	2.71	6.22	0.07	<0.02	0.01	0.020	0.22	24.1	19.5	0.63	180	0.89	0.01
YY18617		3.34	25.4	3.55	7.96	0.06	0.03	0.02	0.026	0.26	24.1	28.8	0.63	359	1.05	0.01
YY18618		2.84	28.0	3.74	7.68	0.05	0.05	0.03	0.031	0.23	21.2	31.4	0.74	375	0.97	0.01
YY18619		3.62	23.5	3.09	7.03	0.05	<0.02	0.01	0.021	0.14	24.0	18.4	0.64	301	0.88	0.01
YY18620		2.40	28.3	3.13	7.20	0.05	0.02	0.02	0.026	0.14	21.6	21.6	0.62	250	0.87	0.01
YY18621		2.00	27.2	2.50	5.60	<0.05	<0.02	0.03	0.022	0.07	19.8	12.7	0.47	206	0.74	0.02
YY18622		4.01	21.0	3.62	7.73	0.05	0.14	0.06	0.034	0.08	18.9	18.0	0.45	425	1.28	0.01
YY18623		2.52	20.0	3.51	5.97	<0.05	0.10	0.03	0.030	0.08	13.4	16.7	0.51	432	1.20	0.01
YY18624		1.20	12.4	3.11	11.55	<0.05	0.05	0.03	0.023	0.05	12.1	10.9	0.32	213	1.14	0.01
YY18625		5.65	15.3	2.61	6.18	<0.05	<0.02	0.02	0.023	0.11	14.6	18.0	0.46	259	0.99	0.01
YY18626		3.80	32.7	3.42	7.79	0.07	0.03	0.03	0.025	0.25	25.6	32.7	1.00	228	0.56	0.01
YY18627		3.82	36.5	3.39	7.74	0.08	0.05	0.03	0.032	0.30	25.1	32.5	0.88	258	0.61	0.02
YY18628		2.41	30.4	2.65	6.06	0.07	0.02	0.03	0.024	0.17	24.3	21.3	0.66	208	0.62	0.01
YY18629		7.22	35.9	3.38	7.55	0.08	0.02	0.02	0.028	0.29	31.2	33.6	0.84	301	0.64	0.02
YY18630		6.72	39.9	3.78	7.33	0.09	<0.02	0.02	0.029	0.37	38.0	36.5	0.83	333	0.85	0.01
YY18631		4.04	25.9	3.33	7.16	0.09	0.02	0.04	0.038	0.27	29.3	29.8	0.83	201	0.88	0.01
YY18632		4.10	27.3	2.87	6.48	0.08	0.02	0.03	0.024	0.23	27.3	21.1	0.77	189	0.95	0.02
YY18633		3.81	38.9	2.94	6.17	0.07	<0.02	0.03	0.023	0.20	33.3	20.4	0.73	268	1.36	0.01
YY18634		4.38	36.3	3.21	6.54	0.07	<0.02	0.05	0.029	0.15	19.1	21.5	1.00	860	1.26	0.01
YY18635		2.35	28.5	2.67	5.53	0.05	0.02	0.04	0.024	0.10	12.6	17.4	0.80	481	1.12	0.02
YY18636		2.42	25.2	3.02	6.46	0.05	0.02	0.04	0.027	0.10	13.0	17.4	0.83	1290	1.23	0.01
YY18637		2.86	30.4	2.96	6.42	0.06	0.02	0.04	0.022	0.09	12.9	20.1	1.19	387	0.81	0.01
YY18638		2.95	35.9	3.20	6.50	0.06	0.03	0.02	0.024	0.12	12.7	17.9	1.41	539	2.31	0.02
YY18639		2.52	25.0	2.70	5.54	<0.05	0.02	0.02	0.020	0.07	12.5	17.8	0.98	412	0.98	0.01
YY18640		2.26	27.0	2.58	5.55	0.05	0.03	0.05	0.035	0.08	17.3	15.7	0.76	502	1.10	0.01

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	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18601		1.98	31.2	760	113.0	47.8	<0.001	0.02	0.43	8.9	0.5	0.4	36.2	<0.01	0.07	2.8
YY18602		2.77	35.7	740	13.4	34.3	<0.001	<0.01	0.34	7.6	0.3	0.5	41.5	0.01	0.07	2.9
YY18603		2.72	29.5	600	24.7	20.8	<0.001	0.01	0.36	4.7	0.2	0.4	27.6	<0.01	0.05	2.1
YY18604		2.73	30.4	560	132.0	25.2	<0.001	0.01	0.68	5.8	0.3	0.5	45.1	0.01	0.05	3.0
YY18605		3.61	24.4	380	38.1	19.2	<0.001	0.02	0.43	4.9	0.4	0.6	24.0	<0.01	0.08	2.3
YY18606		2.60	36.8	620	51.3	24.9	<0.001	0.03	0.41	5.6	0.4	0.5	49.6	0.01	0.13	2.7
YY18607		2.48	43.3	740	107.5	39.8	<0.001	0.02	0.61	8.7	0.4	0.5	55.6	<0.01	0.27	3.3
YY18608		1.29	28.7	490	18.5	16.6	<0.001	0.01	0.45	3.8	0.4	0.8	15.0	<0.01	0.05	3.6
YY18609		0.93	24.8	880	16.9	20.3	<0.001	0.06	0.45	3.4	0.4	0.6	30.7	<0.01	0.05	1.2
YY18610		0.85	22.4	820	77.8	17.9	<0.001	0.05	0.42	3.0	0.6	0.5	27.4	<0.01	0.04	0.7
YY18611		0.83	23.7	580	20.8	13.4	<0.001	0.01	0.43	3.7	0.4	0.5	19.0	<0.01	0.03	1.8
YY18612		0.95	26.2	490	10.2	15.1	<0.001	0.01	0.38	3.5	0.5	0.5	15.9	<0.01	0.04	2.3
YY18613		1.22	30.2	390	22.2	17.6	<0.001	0.01	0.30	3.9	0.2	0.6	18.2	<0.01	0.03	1.4
YY18614		1.67	31.3	460	10.3	20.8	<0.001	0.02	0.33	3.6	0.3	0.6	15.8	<0.01	0.03	2.3
YY18615		1.83	32.7	580	11.6	29.2	<0.001	0.01	0.36	4.1	0.3	0.6	20.9	<0.01	0.03	3.7
YY18616		1.47	25.3	470	10.4	33.7	<0.001	0.02	0.26	2.6	0.2	0.5	17.3	<0.01	0.02	2.6
YY18617		2.23	33.1	420	35.7	38.3	<0.001	0.03	0.36	3.4	0.6	0.6	17.8	<0.01	0.03	6.2
YY18618		2.39	38.8	320	11.2	32.9	<0.001	0.01	0.37	4.4	0.4	0.6	18.8	<0.01	0.04	7.5
YY18619		1.12	31.0	270	28.2	27.9	<0.001	<0.01	0.29	2.5	0.2	0.4	14.2	<0.01	0.03	7.7
YY18620		1.68	29.4	420	10.8	26.0	<0.001	0.01	0.29	3.2	0.3	0.6	20.2	<0.01	0.03	2.9
YY18621		0.66	20.9	430	9.2	13.7	<0.001	0.02	0.28	1.6	0.3	0.4	19.1	<0.01	0.03	0.4
YY18622		1.64	20.8	520	12.9	19.0	<0.001	0.01	0.46	4.6	0.4	0.7	12.8	0.01	0.05	7.5
YY18623		1.58	23.0	740	10.4	15.7	<0.001	0.01	0.53	3.9	0.2	0.5	13.7	0.01	0.03	5.2
YY18624		2.15	13.3	290	14.3	9.3	<0.001	0.01	0.49	2.6	0.3	0.8	11.5	<0.01	0.05	3.4
YY18625		0.78	16.8	670	9.9	21.6	<0.001	0.02	0.39	1.6	0.4	0.6	13.1	<0.01	0.03	1.0
YY18626		2.06	36.2	390	13.1	40.5	<0.001	0.01	0.24	4.1	0.4	0.6	21.0	<0.01	0.04	7.3
YY18627		2.33	39.6	570	17.0	47.6	<0.001	0.02	0.33	5.5	0.5	0.6	24.8	<0.01	0.04	6.5
YY18628		1.69	29.2	760	12.8	28.2	<0.001	0.02	0.38	3.9	0.4	0.5	19.5	<0.01	0.03	4.0
YY18629		2.47	49.9	480	25.7	44.8	<0.001	0.02	0.22	3.5	0.2	0.6	25.1	<0.01	0.04	7.0
YY18630		2.12	40.3	490	16.7	55.0	<0.001	0.03	0.25	3.4	0.4	0.6	15.1	<0.01	0.04	8.1
YY18631		1.97	36.1	510	76.9	40.9	<0.001	0.03	0.38	3.9	0.4	0.6	17.0	<0.01	0.03	5.0
YY18632		1.74	28.7	660	13.8	34.3	<0.001	0.07	0.26	3.5	0.4	0.5	19.6	<0.01	0.04	3.8
YY18633		1.42	33.9	660	21.3	27.7	<0.001	0.09	0.41	3.1	0.2	0.5	22.0	<0.01	0.04	3.4
YY18634		1.10	35.5	730	51.1	22.9	<0.001	0.05	0.44	3.9	0.2	0.5	19.3	<0.01	0.04	2.9
YY18635		1.11	26.3	630	15.3	15.5	<0.001	0.04	0.32	3.6	<0.2	0.4	17.3	<0.01	0.04	2.2
YY18636		1.08	24.5	710	14.9	17.8	<0.001	0.05	0.39	3.4	0.3	0.6	17.6	<0.01	0.04	1.9
YY18637		0.90	31.7	560	10.6	16.5	<0.001	0.04	0.28	3.9	0.3	0.5	15.6	<0.01	0.04	1.7
YY18638		0.97	35.9	490	12.6	12.5	0.001	0.04	0.34	4.6	0.5	0.5	23.8	<0.01	0.04	2.9
YY18639		0.81	28.5	580	13.1	11.8	<0.001	0.04	0.33	3.4	0.3	0.4	18.7	<0.01	0.04	1.9
YY18640		1.06	21.5	750	16.4	11.8	<0.001	0.08	0.41	3.6	0.4	0.9	24.2	<0.01	0.05	2.0

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 2-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198431

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18601		0.190	0.56	0.78	101	0.64	6.43	97	1.5
YY18602		0.207	0.30	0.76	88	1.49	6.83	74	1.5
YY18603		0.184	0.16	0.57	84	0.65	3.80	69	1.5
YY18604		0.183	0.26	0.75	90	1.33	5.27	234	1.9
YY18605		0.209	0.19	0.57	105	0.71	2.82	97	2.5
YY18606		0.181	0.22	0.94	89	0.79	6.24	105	1.7
YY18607		0.195	0.34	0.89	99	0.67	7.66	128	1.4
YY18608		0.080	0.13	1.07	66	0.18	6.33	97	1.0
YY18609		0.051	0.13	1.69	58	0.22	23.1	87	0.9
YY18610		0.048	0.14	2.17	58	0.23	19.55	103	0.6
YY18611		0.058	0.11	1.27	53	0.17	9.79	77	0.7
YY18612		0.075	0.12	1.16	53	0.15	8.00	75	0.7
YY18613		0.103	0.12	0.96	70	0.14	6.97	77	0.8
YY18614		0.108	0.15	1.05	62	0.15	6.33	68	0.8
YY18615		0.122	0.20	0.99	58	0.18	6.79	71	1.3
YY18616		0.089	0.24	1.31	46	0.12	4.74	65	0.5
YY18617		0.117	0.26	1.38	54	0.20	6.34	78	1.2
YY18618		0.127	0.28	1.04	62	0.25	6.20	72	2.3
YY18619		0.052	0.19	1.07	41	0.10	4.89	66	<0.5
YY18620		0.091	0.20	1.00	53	0.19	6.40	62	0.7
YY18621		0.044	0.12	1.03	42	0.12	6.03	45	<0.5
YY18622		0.063	0.18	1.59	62	0.20	6.79	52	5.6
YY18623		0.075	0.15	0.91	60	0.22	4.42	55	3.5
YY18624		0.109	0.12	0.57	89	0.20	2.56	38	2.3
YY18625		0.042	0.18	1.15	41	0.17	5.51	55	<0.5
YY18626		0.116	0.31	1.35	47	0.11	6.35	74	1.0
YY18627		0.131	0.34	1.79	54	0.42	9.93	97	1.9
YY18628		0.108	0.23	1.49	48	0.23	9.21	73	1.0
YY18629		0.111	0.34	1.61	43	0.14	8.29	109	0.8
YY18630		0.106	0.43	2.17	45	0.08	7.19	97	0.5
YY18631		0.107	0.33	2.14	49	0.17	6.37	91	0.7
YY18632		0.097	0.27	2.00	49	0.14	5.16	77	0.6
YY18633		0.085	0.26	2.38	48	0.10	6.88	78	0.6
YY18634		0.103	0.21	1.44	62	0.23	5.57	102	0.6
YY18635		0.095	0.18	1.20	56	0.31	4.33	80	0.8
YY18636		0.091	0.18	0.91	61	0.17	5.30	86	0.6
YY18637		0.117	0.16	1.00	68	0.19	5.69	79	0.9
YY18638		0.128	0.15	1.10	77	0.29	5.38	96	1.2
YY18639		0.082	0.11	1.08	57	0.13	5.35	75	0.7
YY18640		0.065	0.13	1.73	51	0.18	8.66	74	1.0

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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Project: CN

Finalized Date: 2-SEP-2019
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CERTIFICATE OF ANALYSIS WH19198431

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS41 Ag ppm 0.01	ME-MS41 Al % 0.01	ME-MS41 As ppm 0.1	ME-MS41 Au ppm 0.02	ME-MS41 B ppm 10	ME-MS41 Ba ppm 10	ME-MS41 Be ppm 0.05	ME-MS41 Bi ppm 0.01	ME-MS41 Ca % 0.01	ME-MS41 Cd ppm 0.01	ME-MS41 Ce ppm 0.02	ME-MS41 Co ppm 0.1	ME-MS41 Cr ppm 1
YY18641		0.37	0.003	0.27	1.30	6.6	<0.02	<10	130	0.53	0.31	0.44	0.24	34.7	7.6	22
YY18642		0.46	0.004	0.17	1.59	5.5	0.05	<10	160	0.46	0.31	0.35	0.17	31.3	10.2	34
YY18643		0.42	0.004	0.33	1.64	5.9	<0.02	<10	180	0.53	0.26	0.55	0.29	32.6	10.2	31
YY18644		0.64	0.016	0.15	1.47	5.3	<0.02	<10	140	0.46	0.46	0.33	0.17	32.7	7.4	22
YY18645		0.47	0.003	0.05	1.59	8.8	<0.02	<10	90	0.42	0.35	0.14	0.15	28.0	10.0	27
YY18646		0.38	0.007	0.07	1.91	5.9	<0.02	<10	90	0.61	0.16	0.24	0.18	25.9	10.9	45
YY18647		0.43	0.003	0.07	2.13	10.7	<0.02	<10	110	0.45	0.19	0.11	0.18	19.15	6.9	27
YY18648		0.46	0.003	0.08	1.37	7.1	<0.02	<10	70	0.32	0.47	0.09	0.13	22.8	4.7	19
YY18649		0.39	0.014	0.17	1.30	6.2	<0.02	<10	170	0.46	0.39	0.54	0.16	27.0	7.0	20
YY18650		0.52	0.002	0.16	1.65	8.0	<0.02	<10	150	0.60	0.42	0.34	0.12	40.8	10.7	22
YY18651		0.50	0.007	0.20	1.90	6.7	<0.02	<10	130	0.52	0.38	0.24	0.13	46.2	9.5	40
YY18652		0.45	0.016	0.22	1.96	7.9	<0.02	<10	130	0.64	0.46	0.32	0.16	57.0	9.1	44
YY18653		0.37	0.003	0.25	1.84	9.2	<0.02	<10	150	0.63	0.45	0.40	0.20	49.7	10.9	60
YY18654		0.37	0.005	0.77	2.33	5.5	<0.02	<10	310	0.92	1.28	0.65	0.50	87.3	10.4	57
YY18655		0.45	0.009	0.71	2.25	6.5	<0.02	<10	260	0.75	1.21	0.65	0.80	70.3	16.0	78
YY18656		0.38	0.005	0.17	1.62	7.9	<0.02	<10	80	0.54	0.40	0.14	0.35	71.8	7.0	20
YY18657		0.39	0.006	1.03	1.59	9.5	<0.02	<10	150	1.11	0.57	0.27	0.33	113.0	9.3	28
YY18658		0.46	0.004	0.31	2.89	12.7	<0.02	<10	510	0.62	0.42	0.49	0.45	55.1	15.6	93
YY18659		0.39	0.001	0.35	2.20	8.0	<0.02	<10	160	0.84	0.45	0.27	0.57	78.2	12.5	30
YY18660		0.34	0.001	0.13	1.74	5.8	<0.02	<10	120	0.50	0.25	0.17	0.17	62.2	8.4	24
YY18661		0.43	0.007	0.19	2.51	4.6	<0.02	<10	210	0.70	0.15	0.32	0.11	61.5	14.3	28
YY18662		0.40	0.002	0.19	2.47	5.5	<0.02	<10	160	1.17	0.22	0.20	0.12	91.1	10.3	16
YY18663		0.45	0.004	0.16	2.04	11.8	<0.02	<10	120	1.26	0.51	0.16	0.34	161.5	9.6	26
YY18664		0.33	0.003	0.09	2.06	11.9	<0.02	<10	100	0.72	0.33	0.12	0.22	51.3	8.0	26
YY18665		0.39	<0.001	0.03	1.76	10.8	<0.02	<10	70	0.48	0.39	0.11	0.10	42.5	5.2	23
YY18666		0.37	0.002	0.12	1.70	9.2	<0.02	<10	80	0.71	0.53	0.11	0.15	70.1	5.9	19
YY18667		0.33	0.002	0.27	1.83	47.5	<0.02	<10	120	0.76	0.67	0.16	0.27	65.6	7.2	24
YY18701		0.50	0.005	0.06	2.23	7.6	<0.02	<10	290	0.48	0.15	0.45	0.12	22.6	13.5	62
YY18702		0.48	0.001	0.11	2.07	8.1	<0.02	<10	180	0.52	0.16	0.34	0.13	20.3	11.3	43
YY18703		0.53	0.004	0.09	2.08	8.3	<0.02	<10	160	0.46	0.17	0.24	0.13	20.5	11.2	49
YY18704		0.41	0.001	0.16	2.03	12.9	<0.02	<10	160	0.50	0.23	0.21	0.17	17.85	9.7	45
YY18705		0.44	0.004	0.21	1.20	8.0	<0.02	<10	70	0.27	0.25	0.09	0.15	22.7	3.5	19
YY18706		0.46	0.006	0.24	1.46	9.4	<0.02	<10	110	0.37	0.32	0.11	0.22	35.1	5.0	24
YY18707		0.43	0.005	0.55	1.58	8.3	<0.02	<10	100	0.65	0.50	0.07	0.38	114.0	4.8	19
YY18708		0.37	0.002	0.84	0.66	3.1	<0.02	<10	60	0.23	0.21	0.04	0.34	25.9	1.9	8
YY18709		0.38	0.002	0.37	1.49	7.5	<0.02	<10	100	0.50	0.40	0.12	0.30	47.1	3.6	19
YY18710		0.45	0.001	0.16	1.95	4.8	<0.02	<10	90	1.91	0.47	0.16	0.58	145.0	8.8	13
YY18711		0.40	0.005	0.20	1.53	11.7	<0.02	<10	100	0.40	0.28	0.12	0.23	28.4	5.3	23
YY18712		0.37	0.004	0.64	1.06	7.2	<0.02	<10	100	0.40	0.42	0.09	0.52	49.3	4.1	14
YY18713		0.41	0.003	0.23	1.30	7.2	<0.02	<10	70	0.36	0.25	0.09	0.32	37.3	4.3	18

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18641		3.68	25.4	2.26	4.72	<0.05	0.02	0.03	0.032	0.06	19.1	11.6	0.49	371	1.19	0.02
YY18642		2.33	20.6	2.50	5.51	0.05	<0.02	0.03	0.028	0.11	15.4	14.2	0.69	461	1.02	0.02
YY18643		3.37	24.9	2.52	5.56	0.05	0.03	0.04	0.025	0.11	18.5	14.7	0.73	557	1.27	0.02
YY18644		1.85	18.1	2.10	4.65	0.05	0.05	0.03	0.026	0.09	16.8	14.3	0.63	222	0.99	0.01
YY18645		3.16	15.3	2.99	5.98	<0.05	0.02	0.03	0.024	0.08	12.3	15.5	0.60	518	1.07	0.01
YY18646		1.60	19.2	2.78	5.77	0.06	0.05	0.02	0.021	0.07	14.1	18.3	1.08	333	0.75	0.01
YY18647		1.03	14.4	3.11	6.42	<0.05	0.02	0.04	0.028	0.05	9.1	13.2	0.35	281	1.17	0.01
YY18648		1.94	16.5	2.38	6.87	<0.05	0.02	0.03	0.021	0.05	11.0	10.7	0.35	207	1.21	0.01
YY18649		1.71	18.1	2.26	4.32	<0.05	0.03	0.03	0.023	0.07	15.2	12.1	0.53	462	1.10	0.01
YY18650		3.04	18.5	2.61	5.07	0.05	0.03	0.03	0.027	0.07	20.9	14.7	0.73	496	1.64	0.01
YY18651		2.75	22.1	2.68	6.00	0.07	0.04	0.03	0.023	0.11	27.2	15.0	0.96	298	1.67	0.01
YY18652		2.69	21.9	2.77	6.24	0.07	0.06	0.03	0.024	0.16	31.8	16.9	1.15	284	1.81	0.01
YY18653		3.96	25.8	2.79	6.38	0.06	0.03	0.02	0.025	0.08	27.8	18.0	1.13	614	1.53	0.01
YY18654		5.13	130.5	3.46	6.95	0.13	0.07	0.03	0.034	0.48	61.4	21.6	1.91	707	2.11	0.03
YY18655		4.36	93.9	3.77	6.83	0.13	0.04	0.03	0.040	0.32	52.5	18.1	1.93	804	2.89	0.03
YY18656		1.04	24.8	2.16	4.83	<0.05	0.02	0.08	0.023	0.06	29.3	10.3	0.36	660	1.20	0.02
YY18657		2.62	25.0	2.82	5.07	0.12	0.05	0.04	0.027	0.07	69.4	12.8	0.50	939	1.37	0.01
YY18658		4.23	37.1	3.89	9.21	0.13	0.07	0.04	0.031	0.61	33.4	21.4	2.01	390	2.29	0.02
YY18659		2.70	29.0	3.33	7.23	0.08	0.06	0.04	0.024	0.38	40.5	17.1	1.27	772	1.14	0.01
YY18660		1.80	15.2	2.54	6.01	0.06	0.03	0.03	0.023	0.10	32.7	13.3	0.69	461	0.94	0.01
YY18661		3.89	48.5	3.59	7.45	0.09	0.02	0.02	0.019	0.47	37.4	17.5	1.57	712	0.72	0.02
YY18662		4.34	40.5	3.47	8.23	0.09	0.02	0.02	0.022	0.41	58.7	18.7	1.53	611	1.69	0.02
YY18663		1.43	25.4	2.76	6.13	0.10	0.11	0.03	0.030	0.09	72.6	18.1	0.51	805	2.53	0.01
YY18664		1.00	12.6	3.03	5.84	<0.05	0.07	0.03	0.029	0.06	21.4	16.4	0.37	484	1.61	0.01
YY18665		1.14	10.5	3.00	7.13	<0.05	0.02	0.05	0.026	0.07	23.1	12.6	0.33	320	1.76	0.01
YY18666		1.68	12.1	2.48	5.50	0.05	0.06	0.02	0.021	0.12	38.3	13.2	0.55	305	2.42	0.01
YY18667		1.70	17.5	2.99	5.77	0.06	0.10	0.02	0.026	0.10	40.0	13.5	0.54	439	2.26	0.01
YY18701		3.09	29.0	3.31	7.26	0.08	0.03	0.01	0.019	0.24	12.0	22.4	1.02	313	0.58	0.02
YY18702		2.55	33.4	2.95	7.75	0.06	0.03	0.02	0.021	0.13	10.9	23.9	0.77	246	1.06	0.02
YY18703		2.20	26.6	2.94	7.95	0.05	0.03	0.02	0.021	0.10	10.5	21.6	0.75	271	0.82	0.02
YY18704		2.03	31.8	2.67	7.16	<0.05	0.02	0.03	0.024	0.08	9.3	19.5	0.66	267	0.92	0.02
YY18705		0.93	19.7	1.81	6.39	<0.05	<0.02	0.03	0.020	0.05	11.9	7.3	0.28	133	1.22	0.01
YY18706		1.09	28.4	2.24	6.00	0.05	<0.02	0.03	0.019	0.06	19.5	10.5	0.39	197	1.53	0.01
YY18707		1.47	37.5	2.26	7.27	0.11	0.02	0.06	0.023	0.08	58.1	10.0	0.38	280	1.78	0.02
YY18708		0.75	25.7	1.09	4.34	<0.05	<0.02	0.03	0.013	0.03	15.5	1.9	0.07	89	0.83	0.02
YY18709		1.00	29.5	1.95	6.79	0.07	<0.02	0.05	0.022	0.07	31.9	9.0	0.33	184	1.57	0.01
YY18710		3.14	22.2	2.48	6.77	0.15	0.04	0.02	0.022	0.28	95.4	23.8	1.18	1140	2.37	0.01
YY18711		0.90	25.2	2.31	5.67	<0.05	<0.02	0.03	0.023	0.07	16.2	11.3	0.38	210	1.61	0.02
YY18712		1.66	23.7	1.78	4.86	0.06	<0.02	0.05	0.025	0.05	28.5	6.8	0.22	375	2.05	0.02
YY18713		1.17	22.8	1.95	5.79	0.05	<0.02	0.03	0.021	0.06	20.6	8.0	0.31	212	1.28	0.02

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

Project: CN

Finalized Date: 2-SEP-2019
Account: RCM

CERTIFICATE OF ANALYSIS WH19198431

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18641		0.63	19.1	630	17.9	9.6	<0.001	0.07	0.37	2.0	0.2	0.4	24.2	<0.01	0.05	1.8
YY18642		0.99	20.6	660	14.2	14.0	<0.001	0.06	0.31	2.7	0.2	0.6	20.6	<0.01	0.04	1.7
YY18643		0.85	21.6	690	14.9	14.2	<0.001	0.06	0.39	3.5	0.4	0.5	26.4	<0.01	0.04	1.7
YY18644		0.84	14.9	460	15.2	12.1	<0.001	0.02	0.34	3.8	0.2	0.5	17.0	<0.01	0.04	5.8
YY18645		1.00	16.9	310	19.4	13.2	<0.001	0.02	0.38	2.7	<0.2	0.5	11.1	<0.01	0.04	3.6
YY18646		0.92	26.3	480	17.7	10.2	<0.001	0.01	0.37	3.8	<0.2	0.7	17.4	<0.01	0.03	2.7
YY18647		1.34	16.9	320	10.6	7.8	<0.001	0.02	0.53	2.7	<0.2	0.6	11.7	0.01	0.04	1.6
YY18648		1.17	11.4	200	30.6	10.2	<0.001	0.01	0.40	2.2	<0.2	0.7	10.0	<0.01	0.03	3.7
YY18649		0.69	14.2	550	8.5	10.0	<0.001	0.05	0.37	2.8	<0.2	0.4	22.6	<0.01	0.06	2.0
YY18650		0.67	14.2	600	22.9	13.5	<0.001	0.04	0.35	3.7	0.4	0.5	17.2	<0.01	0.05	4.2
YY18651		1.08	22.6	600	39.4	18.1	<0.001	0.02	0.36	3.9	0.4	0.5	16.3	<0.01	0.03	8.0
YY18652		1.23	24.4	590	45.5	22.7	<0.001	0.02	0.36	4.2	0.4	0.5	17.6	<0.01	0.02	12.5
YY18653		0.99	32.3	670	37.8	20.8	0.001	0.06	0.32	3.1	0.2	0.5	21.0	<0.01	0.04	4.5
YY18654		1.73	33.4	540	80.3	40.0	0.002	0.27	0.23	3.8	0.9	0.9	31.2	<0.01	0.19	12.3
YY18655		0.86	57.2	720	98.9	22.3	0.003	0.28	0.25	5.5	0.9	0.7	39.2	<0.01	0.14	9.5
YY18656		0.66	15.9	720	31.4	8.5	<0.001	0.06	0.48	1.5	<0.2	0.4	12.5	<0.01	0.03	2.2
YY18657		0.81	21.2	720	64.8	10.2	<0.001	0.01	0.49	3.9	0.3	0.4	20.4	<0.01	0.03	14.2
YY18658		1.73	42.6	820	52.4	57.3	0.001	0.05	0.39	9.5	0.5	1.0	24.7	<0.01	0.02	12.7
YY18659		1.41	23.0	580	146.0	40.6	<0.001	0.04	0.28	4.3	<0.2	0.7	22.1	<0.01	0.03	12.5
YY18660		1.38	14.4	520	26.9	17.6	<0.001	0.03	0.28	3.0	<0.2	0.5	14.2	<0.01	0.03	5.0
YY18661		1.09	19.1	380	22.0	40.9	<0.001	0.02	0.25	6.1	<0.2	0.5	15.5	<0.01	0.02	7.6
YY18662		1.12	11.0	440	21.5	33.4	<0.001	0.02	0.22	4.5	<0.2	0.7	18.0	<0.01	0.02	13.4
YY18663		1.82	19.5	520	39.3	15.8	<0.001	0.01	0.50	4.2	<0.2	0.6	14.0	0.01	0.04	24.4
YY18664		1.63	16.0	400	14.3	11.9	<0.001	0.02	0.50	3.0	0.2	0.5	11.9	0.01	0.04	10.3
YY18665		1.50	11.0	300	15.8	11.8	<0.001	0.02	0.44	2.5	<0.2	0.6	11.8	<0.01	0.05	6.8
YY18666		1.56	11.9	320	22.0	19.4	<0.001	0.02	0.34	2.7	<0.2	0.5	13.0	<0.01	0.05	19.6
YY18667		1.40	16.8	470	68.1	17.6	<0.001	0.03	0.45	3.2	<0.2	0.5	16.0	<0.01	0.04	27.0
YY18701		1.92	38.0	820	13.1	23.0	<0.001	0.01	0.32	5.0	<0.2	0.4	39.4	<0.01	0.02	2.9
YY18702		1.74	31.1	660	14.4	17.8	<0.001	0.02	0.53	3.7	0.4	0.4	33.7	<0.01	0.02	2.0
YY18703		2.10	29.6	530	10.7	16.3	<0.001	0.02	0.38	3.8	0.2	0.5	27.6	<0.01	0.03	2.9
YY18704		1.82	27.6	490	12.9	15.4	<0.001	0.02	0.35	3.3	0.7	0.4	25.7	<0.01	0.03	1.5
YY18705		0.77	10.2	390	78.1	9.9	<0.001	0.03	0.35	1.2	0.3	0.5	9.8	<0.01	0.02	0.5
YY18706		0.91	14.3	410	82.4	13.2	<0.001	0.04	0.47	1.9	0.2	0.5	13.0	<0.01	0.02	1.7
YY18707		1.25	11.0	400	94.2	20.8	<0.001	0.03	0.45	2.0	0.5	0.6	10.8	<0.01	0.03	3.7
YY18708		0.37	4.3	320	84.4	7.7	0.001	0.03	0.20	0.4	0.3	0.4	7.1	<0.01	<0.01	<0.2
YY18709		0.80	10.3	410	97.5	15.6	<0.001	0.03	0.33	1.4	0.6	0.6	14.1	<0.01	0.02	0.9
YY18710		1.23	8.8	450	70.7	41.7	<0.001	0.02	0.27	2.7	0.5	0.5	15.5	<0.01	0.02	22.3
YY18711		0.94	15.4	370	98.1	10.9	<0.001	0.04	1.01	2.3	0.5	0.5	12.5	<0.01	0.02	3.0
YY18712		0.85	7.7	350	227	15.8	<0.001	0.03	0.31	1.2	0.2	0.4	11.0	<0.01	0.03	3.1
YY18713		0.69	9.2	500	100.5	10.6	<0.001	0.04	0.37	1.2	0.4	0.4	10.5	<0.01	0.03	0.9

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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CERTIFICATE OF ANALYSIS WH19198431

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18641		0.043	0.11	1.69	38	0.16	9.19	69	0.7
YY18642		0.074	0.15	1.18	48	0.24	6.70	66	0.7
YY18643		0.071	0.14	1.42	53	0.17	11.15	87	1.0
YY18644		0.060	0.12	1.66	39	0.26	10.00	61	1.6
YY18645		0.065	0.11	0.68	54	0.14	3.84	69	0.8
YY18646		0.105	0.13	0.67	57	0.21	6.94	78	1.8
YY18647		0.075	0.11	0.49	68	0.21	2.96	48	0.9
YY18648		0.060	0.12	0.58	58	0.28	3.35	46	0.9
YY18649		0.051	0.11	1.14	41	0.30	9.02	52	1.1
YY18650		0.044	0.15	1.45	43	0.15	11.65	64	1.0
YY18651		0.092	0.21	2.36	51	0.19	7.27	105	1.6
YY18652		0.097	0.24	2.25	51	0.20	8.59	113	2.5
YY18653		0.067	0.20	2.22	52	0.22	8.07	98	1.2
YY18654		0.094	0.44	6.16	50	0.10	20.0	146	2.5
YY18655		0.067	0.26	3.76	53	0.12	22.6	158	1.7
YY18656		0.054	0.13	1.06	44	0.19	6.63	77	0.7
YY18657		0.072	0.11	2.68	51	0.29	19.50	100	2.1
YY18658		0.186	0.57	3.55	88	0.18	15.00	155	2.9
YY18659		0.143	0.37	2.56	53	0.17	11.25	324	2.7
YY18660		0.080	0.17	1.06	53	0.18	6.37	77	1.1
YY18661		0.134	0.30	1.77	78	0.15	10.05	82	1.2
YY18662		0.088	0.28	3.70	60	0.12	12.10	76	1.0
YY18663		0.080	0.26	3.75	47	0.25	14.15	81	4.0
YY18664		0.075	0.14	1.56	54	0.22	5.20	63	2.6
YY18665		0.075	0.16	1.48	61	0.21	4.44	45	1.1
YY18666		0.073	0.24	2.87	43	0.15	6.56	84	2.9
YY18667		0.074	0.20	2.83	46	0.17	9.14	99	4.4
YY18701		0.220	0.20	0.89	95	0.18	5.45	51	1.4
YY18702		0.161	0.15	0.85	85	0.20	4.25	51	1.1
YY18703		0.178	0.14	0.72	84	0.22	3.75	48	1.3
YY18704		0.150	0.13	0.84	74	0.18	3.68	50	0.9
YY18705		0.049	0.12	1.08	45	0.17	2.93	46	<0.5
YY18706		0.053	0.15	1.48	46	0.18	4.44	66	0.5
YY18707		0.059	0.24	3.56	42	0.17	10.05	79	0.8
YY18708		0.032	0.10	1.55	28	0.10	3.67	28	<0.5
YY18709		0.043	0.16	2.89	41	0.17	9.04	73	0.5
YY18710		0.065	0.44	3.92	31	0.10	13.45	202	1.9
YY18711		0.055	0.12	1.50	47	0.18	4.06	71	0.7
YY18712		0.038	0.18	2.51	30	0.11	4.98	107	<0.5
YY18713		0.046	0.14	1.98	40	0.14	4.53	97	0.5

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18714		0.37	0.003	0.20	0.48	2.7	<0.02	<10	20	0.09	0.14	0.03	0.05	12.50	1.1	6
YY18715		0.51	0.002	0.15	2.03	11.9	<0.02	<10	80	0.61	0.40	0.11	0.56	58.5	4.9	25
YY18716		0.52	0.002	0.15	1.79	9.3	<0.02	<10	90	0.64	0.33	0.14	0.25	49.4	6.8	39
YY18717		0.45	0.001	0.17	1.77	9.8	<0.02	<10	110	0.57	0.35	0.17	0.29	61.5	7.1	40
YY18718		0.45	0.003	0.20	1.66	8.4	<0.02	<10	130	0.50	0.28	0.24	0.41	41.5	8.2	55
YY18719		0.43	0.003	0.13	1.59	8.6	<0.02	<10	120	0.52	0.24	0.18	0.33	48.9	7.5	42
YY18720		0.47	0.002	0.14	1.88	8.6	<0.02	<10	180	0.55	0.22	0.31	0.30	40.5	10.1	82
YY18721		0.51	0.002	0.11	1.37	9.2	<0.02	<10	100	0.38	0.22	0.16	0.28	33.0	5.5	26
YY18722		0.54	0.004	0.26	1.24	11.8	<0.02	<10	60	0.31	0.38	0.09	0.20	29.8	3.0	15
YY18723		0.45	0.004	0.23	1.34	6.5	<0.02	<10	70	0.39	0.27	0.11	0.18	41.2	4.7	18
YY18724		0.62	0.004	0.35	1.46	11.1	<0.02	<10	90	0.44	0.36	0.10	0.35	83.2	7.6	20
YY18725		0.58	0.002	0.46	1.32	13.2	<0.02	<10	100	0.37	0.31	0.08	0.33	81.2	2.4	21
YY18726		0.56	0.004	0.37	1.48	10.9	<0.02	<10	120	0.35	0.36	0.15	0.17	60.1	4.8	26
YY18727		0.64	0.005	0.28	1.57	10.3	<0.02	<10	90	0.29	0.46	0.14	0.10	45.5	4.3	22
YY18728		0.60	0.008	0.84	1.23	28.2	<0.02	<10	70	0.31	1.30	0.09	0.18	77.3	2.9	14
YY18729		0.59	0.032	2.48	1.36	50.3	0.03	<10	60	0.34	1.88	0.15	0.14	69.6	3.6	18
YY18730		0.56	0.012	0.93	0.91	19.8	<0.02	<10	100	0.23	1.11	0.06	0.09	81.3	1.4	7
YY18731		0.45	0.018	1.56	1.04	39.6	0.02	<10	90	0.23	0.98	0.12	0.15	44.5	2.6	13
YY18733		0.57	0.004	0.18	1.84	16.6	<0.02	<10	220	0.75	0.30	0.27	0.21	57.0	8.0	26
YY18734		0.41	0.001	0.03	1.50	21.5	<0.02	<10	60	0.99	0.31	0.33	0.09	78.5	8.7	15
YY18735		0.38	0.002	0.11	1.64	25.3	<0.02	<10	100	1.00	0.47	0.19	0.07	56.5	4.3	14
YY18736		0.50	0.006	0.18	1.69	46.6	<0.02	<10	130	0.82	0.39	0.22	0.19	44.4	13.5	22
YY18737		0.54	0.004	0.06	1.37	25.6	<0.02	<10	90	0.84	0.39	0.35	0.12	53.4	6.5	17
YY18738		0.41	0.003	0.13	1.13	4.2	<0.02	<10	90	0.23	0.22	0.18	0.09	26.1	3.1	15
YY18739		0.44	0.001	0.13	1.53	5.2	<0.02	<10	120	0.32	0.21	0.23	0.13	30.7	5.3	25
YY18740		0.43	0.001	0.10	1.80	6.1	<0.02	<10	120	0.49	0.22	0.19	0.11	30.9	8.0	27
YY18741		0.37	0.001	0.10	1.69	3.9	<0.02	<10	110	0.37	0.21	0.19	0.10	37.7	7.1	25
YY18742		0.45	0.001	0.09	1.69	5.0	<0.02	<10	120	0.37	0.20	0.19	0.11	38.1	9.6	28
YY18743		0.36	0.002	0.13	1.71	5.7	<0.02	<10	120	0.36	0.21	0.19	0.10	34.8	8.9	31
YY18744		0.48	0.001	0.10	1.79	5.6	<0.02	<10	110	0.36	0.24	0.17	0.10	35.9	10.3	32
YY18745		0.44	<0.001	0.07	2.03	5.5	<0.02	<10	120	0.44	0.24	0.20	0.09	40.4	12.4	36
YY18746		0.33	0.002	0.06	2.04	9.3	<0.02	<10	160	0.76	0.21	0.22	0.19	45.6	16.2	32
YY18747		0.43	0.003	0.05	2.08	6.7	<0.02	<10	170	0.66	0.19	0.30	0.15	57.5	19.7	36
YY18748		0.47	0.002	0.10	2.47	6.6	<0.02	<10	140	0.80	0.27	0.34	0.10	64.0	15.7	44
YY18749		0.42	0.002	0.10	1.97	5.6	<0.02	<10	190	0.66	0.25	0.32	0.19	58.1	14.3	43
YY18750		0.42	0.004	0.18	2.08	5.7	<0.02	<10	150	0.72	0.24	0.32	0.19	48.8	12.8	43
YY18751		0.50	0.002	0.12	2.05	6.5	<0.02	<10	160	0.66	0.25	0.30	0.14	44.0	11.7	43
YY18752		0.44	0.002	0.12	2.12	5.4	<0.02	<10	150	0.83	0.23	0.30	0.16	46.5	10.8	44
YY18753		0.46	0.004	0.17	2.09	7.0	<0.02	<10	150	0.84	0.27	0.34	0.12	50.0	11.1	42
YY18754		0.50	0.011	0.14	1.95	7.0	<0.02	<10	120	0.71	0.23	0.26	0.11	48.3	11.4	42

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18714		0.64	5.6	0.83	3.17	<0.05	<0.02	0.02	0.007	0.03	7.5	1.5	0.07	46	0.64	0.02
YY18715		1.23	21.7	3.02	7.05	0.06	0.07	0.04	0.028	0.07	27.7	14.8	0.39	218	1.61	0.01
YY18716		1.90	23.5	2.77	6.60	0.06	0.03	0.03	0.024	0.09	28.0	13.6	0.77	391	1.64	0.01
YY18717		1.44	26.3	2.63	6.44	0.07	0.03	0.03	0.022	0.13	36.6	13.0	0.79	388	1.72	0.01
YY18718		1.20	26.2	2.48	5.65	0.07	0.03	0.04	0.023	0.11	23.9	12.9	0.77	421	1.09	0.02
YY18719		1.05	30.0	2.40	5.28	0.06	0.04	0.03	0.020	0.08	25.2	13.3	0.59	356	1.13	0.01
YY18720		1.34	24.3	2.64	6.23	0.06	0.02	0.03	0.023	0.14	22.6	13.5	0.98	391	1.02	0.02
YY18721		0.86	22.4	2.23	5.12	0.05	0.02	0.10	0.023	0.07	18.0	9.8	0.41	210	1.23	0.01
YY18722		1.11	30.3	2.29	4.40	0.05	<0.02	0.04	0.022	0.06	17.6	7.8	0.27	109	2.10	0.02
YY18723		1.34	14.8	2.03	5.19	<0.05	0.02	0.05	0.016	0.12	23.2	9.3	0.52	226	1.21	0.02
YY18724		1.19	25.7	2.75	5.37	0.09	0.02	0.08	0.018	0.13	45.3	9.1	0.73	364	1.91	0.01
YY18725		1.08	36.7	2.68	4.73	0.08	0.02	0.10	0.016	0.16	49.7	7.3	0.62	142	2.35	0.01
YY18726		0.80	28.2	2.65	5.16	0.07	<0.02	0.06	0.021	0.10	33.9	8.7	0.49	154	1.54	0.01
YY18727		1.08	38.9	2.18	5.32	0.05	0.02	0.06	0.024	0.06	25.5	10.2	0.41	157	1.29	0.01
YY18728		1.47	64.0	2.19	4.68	0.07	<0.02	0.05	0.028	0.17	49.1	8.0	0.43	194	2.74	0.01
YY18729		1.63	104.5	3.30	5.03	0.07	0.05	0.09	0.062	0.12	42.4	8.8	0.41	155	3.21	0.01
YY18730		1.63	93.1	2.14	3.51	0.07	0.08	0.05	0.039	0.42	49.6	6.8	0.61	188	4.94	0.01
YY18731		1.76	102.0	2.13	4.48	0.05	0.02	0.10	0.049	0.19	29.5	6.2	0.44	173	3.16	0.02
YY18733		3.21	17.9	2.35	6.21	0.07	0.02	0.04	0.029	0.09	28.4	18.3	0.46	171	0.62	0.01
YY18734		2.49	11.0	2.41	5.81	0.10	0.02	0.01	0.018	0.11	38.2	27.9	0.64	244	0.54	0.01
YY18735		4.99	8.7	1.95	5.96	0.10	<0.02	0.05	0.022	0.10	37.9	17.7	0.27	264	0.90	0.02
YY18736		4.78	12.9	2.38	7.21	0.07	<0.02	0.03	0.032	0.10	26.1	17.5	0.35	1280	1.36	0.02
YY18737		4.58	12.6	2.38	5.99	0.08	<0.02	0.01	0.022	0.11	25.7	21.7	0.47	362	0.94	0.02
YY18738		1.97	7.0	1.35	4.83	<0.05	<0.02	0.17	0.016	0.05	13.5	7.7	0.27	93	0.39	0.01
YY18739		1.84	9.6	2.02	5.59	0.05	<0.02	0.03	0.018	0.07	15.8	17.9	0.48	121	0.60	0.01
YY18740		1.95	13.5	2.56	5.57	0.06	0.02	0.04	0.022	0.09	16.5	22.7	0.60	166	0.65	0.01
YY18741		2.35	12.7	2.09	6.04	0.06	<0.02	0.03	0.020	0.10	21.0	21.6	0.57	124	0.55	0.01
YY18742		1.92	12.9	2.35	5.93	0.06	<0.02	0.03	0.021	0.09	21.2	25.4	0.60	192	0.56	0.01
YY18743		1.97	12.7	2.40	6.16	0.06	<0.02	0.03	0.022	0.10	18.7	24.0	0.59	240	0.60	0.01
YY18744		2.23	15.5	2.73	6.50	0.06	<0.02	0.01	0.024	0.14	19.2	24.4	0.65	213	0.69	0.01
YY18745		2.78	17.1	2.96	7.04	0.07	<0.02	0.03	0.023	0.24	21.7	33.5	0.78	151	0.54	0.01
YY18746		2.07	27.5	3.05	6.18	0.06	0.02	0.02	0.025	0.09	21.0	27.5	0.61	428	0.87	0.01
YY18747		2.95	33.1	3.36	6.73	0.10	0.02	0.01	0.027	0.26	28.8	32.3	0.86	313	0.75	0.02
YY18748		3.46	30.8	3.52	8.41	0.10	0.02	0.03	0.029	0.20	37.3	50.0	1.20	195	0.67	0.01
YY18749		3.09	32.2	3.02	6.84	0.11	0.09	0.03	0.029	0.22	31.5	40.5	0.85	197	0.66	0.02
YY18750		3.47	28.6	2.86	7.14	0.13	0.04	0.06	0.026	0.15	36.0	40.1	0.80	237	0.70	0.02
YY18751		2.69	22.9	3.02	7.11	0.07	0.03	0.03	0.030	0.12	23.5	32.1	0.82	218	0.76	0.02
YY18752		3.10	25.1	2.71	7.41	0.08	0.03	0.04	0.028	0.12	24.5	35.2	0.85	219	0.66	0.02
YY18753		3.11	20.3	2.92	7.55	0.08	0.02	0.08	0.029	0.15	28.1	36.3	0.79	210	0.92	0.01
YY18754		3.68	23.6	3.02	7.40	0.07	<0.02	0.03	0.027	0.15	25.1	32.9	0.82	312	0.99	0.01

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 2-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198431

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18714		0.33	2.2	200	28.0	5.0	<0.001	0.03	0.09	0.4	0.3	0.2	4.7	<0.01	0.01	0.2
YY18715		1.62	14.5	260	123.5	16.0	<0.001	0.03	0.52	2.7	0.4	0.6	11.9	0.01	0.03	16.6
YY18716		1.03	19.6	400	122.0	20.1	<0.001	0.04	0.41	3.0	0.4	0.6	13.5	<0.01	0.03	11.6
YY18717		1.08	20.6	450	128.0	21.3	<0.001	0.05	0.42	3.1	0.5	0.6	16.5	<0.01	0.02	12.4
YY18718		0.80	26.8	540	98.0	16.4	0.001	0.04	0.38	3.7	0.4	0.5	17.9	<0.01	0.02	8.0
YY18719		0.92	21.6	410	71.5	13.7	<0.001	0.03	0.40	3.3	0.2	0.4	14.7	<0.01	<0.01	11.2
YY18720		0.78	34.4	470	61.9	18.9	<0.001	0.04	0.34	4.0	0.5	0.5	21.7	<0.01	0.02	4.6
YY18721		0.69	15.8	520	72.8	12.0	<0.001	0.04	0.44	2.0	0.3	0.4	16.3	<0.01	0.01	1.9
YY18722		0.79	9.0	310	275	11.6	<0.001	0.07	0.43	1.4	0.3	0.4	9.9	<0.01	0.01	5.2
YY18723		0.98	10.7	390	117.0	20.5	<0.001	0.03	0.30	1.8	0.6	0.5	15.7	<0.01	0.01	6.0
YY18724		0.73	13.0	550	255	26.2	<0.001	0.03	0.44	1.9	0.4	0.4	20.7	<0.01	0.01	10.1
YY18725		0.70	12.2	560	287	24.0	<0.001	0.06	0.47	1.6	0.4	0.4	23.7	<0.01	<0.01	10.6
YY18726		0.86	12.4	580	127.0	15.4	0.001	0.04	0.46	2.3	0.5	0.4	20.3	<0.01	0.02	8.2
YY18727		1.08	13.2	460	113.0	9.8	<0.001	0.03	0.51	2.3	0.4	0.4	12.0	<0.01	0.04	5.3
YY18728		1.31	7.7	380	292	22.4	<0.001	0.12	0.62	1.5	0.5	0.4	13.0	<0.01	0.10	13.1
YY18729		1.92	11.1	490	627	18.1	<0.001	0.11	2.59	2.2	0.6	0.4	12.8	<0.01	0.20	21.3
YY18730		1.24	4.5	290	414	36.2	0.001	0.43	1.37	0.9	0.3	0.3	13.6	<0.01	0.12	31.1
YY18731		1.24	8.1	430	504	22.5	<0.001	0.22	1.84	1.2	0.3	0.4	14.4	<0.01	0.15	8.9
YY18733		1.04	18.9	720	21.5	20.4	0.001	0.02	0.63	3.7	0.6	0.6	19.4	<0.01	0.01	5.1
YY18734		0.52	16.7	1190	11.2	15.3	<0.001	0.01	0.40	2.0	0.2	0.6	14.0	<0.01	<0.01	14.1
YY18735		0.73	8.7	720	25.1	24.8	<0.001	0.03	0.39	1.4	0.4	0.6	12.6	<0.01	0.01	3.4
YY18736		0.80	14.2	810	42.8	24.3	<0.001	0.03	0.72	2.0	0.3	0.7	17.3	<0.01	0.01	2.5
YY18737		0.87	15.0	910	19.1	22.5	<0.001	0.02	0.99	2.0	0.5	0.6	19.8	<0.01	<0.01	11.0
YY18738		0.56	9.5	600	12.0	13.9	<0.001	0.04	0.13	1.3	0.3	0.4	13.9	<0.01	<0.01	0.6
YY18739		1.13	16.6	560	12.0	16.7	<0.001	0.04	0.33	2.4	0.6	0.5	16.0	<0.01	0.03	1.9
YY18740		1.34	18.8	570	10.4	18.5	<0.001	0.03	0.34	2.8	0.5	0.5	14.3	<0.01	0.02	3.4
YY18741		1.27	19.8	480	9.3	22.8	<0.001	0.04	0.22	2.6	0.5	0.5	16.4	<0.01	0.03	2.2
YY18742		1.33	21.9	520	10.4	19.4	<0.001	0.03	0.22	2.8	0.2	0.5	14.7	<0.01	0.02	3.0
YY18743		1.37	21.3	560	13.9	19.7	<0.001	0.03	0.25	2.8	0.4	0.5	15.5	<0.01	0.03	2.4
YY18744		1.54	23.6	530	10.3	25.4	<0.001	0.03	0.24	2.9	0.4	0.5	13.3	<0.01	0.02	2.6
YY18745		1.93	30.0	510	10.6	37.6	<0.001	0.02	0.22	3.3	0.4	0.6	14.6	<0.01	0.03	5.4
YY18746		1.23	32.5	590	11.4	16.2	<0.001	0.02	0.38	3.2	0.5	0.5	16.9	<0.01	0.04	4.4
YY18747		1.44	39.3	730	7.9	40.9	<0.001	0.03	0.33	3.5	0.3	0.6	22.7	<0.01	0.03	6.5
YY18748		1.76	41.6	540	11.4	35.6	<0.001	0.02	0.28	4.7	0.4	0.6	22.0	<0.01	0.04	9.2
YY18749		1.76	34.8	440	11.2	36.0	<0.001	0.01	0.40	4.8	0.6	0.6	20.0	<0.01	0.03	10.5
YY18750		1.73	33.7	530	10.9	26.5	<0.001	0.02	0.42	4.9	0.6	0.6	20.5	<0.01	0.04	6.9
YY18751		1.64	31.1	440	11.8	22.9	<0.001	0.02	0.46	4.4	0.4	0.6	19.4	<0.01	0.03	6.5
YY18752		1.55	28.4	440	10.7	23.6	<0.001	0.02	0.40	4.9	0.5	0.6	18.1	<0.01	0.03	5.9
YY18753		1.47	29.6	600	11.0	26.8	<0.001	0.02	0.40	4.4	0.4	0.7	19.1	<0.01	0.03	6.0
YY18754		1.27	32.1	480	10.8	25.7	<0.001	0.03	0.32	3.7	0.3	0.6	18.1	<0.01	0.03	4.3

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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VANCOUVER BC V6B 1L8

Finalized Date: 2-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198431

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18714		0.033	0.07	0.83	19	0.08	1.56	25	<0.5
YY18715		0.075	0.18	2.94	55	0.18	5.83	138	2.8
YY18716		0.088	0.16	3.23	48	0.16	7.01	165	1.3
YY18717		0.090	0.22	3.00	44	0.14	6.67	180	1.3
YY18718		0.089	0.14	3.08	49	0.26	8.35	187	1.4
YY18719		0.077	0.15	3.26	47	0.17	6.79	140	1.7
YY18720		0.089	0.19	1.94	51	0.14	8.21	142	0.9
YY18721		0.062	0.14	2.07	44	0.18	4.82	104	0.6
YY18722		0.042	0.15	2.71	31	0.13	4.36	102	0.5
YY18723		0.074	0.24	2.10	32	0.13	3.52	144	1.1
YY18724		0.070	0.34	2.43	28	0.09	5.82	186	0.5
YY18725		0.063	0.38	3.28	23	0.07	5.10	181	0.9
YY18726		0.059	0.19	2.83	36	0.11	4.75	82	0.6
YY18727		0.062	0.17	1.38	42	0.16	4.31	56	0.8
YY18728		0.053	0.28	2.91	26	0.18	3.75	76	0.8
YY18729		0.060	0.27	1.89	36	0.18	4.50	66	1.7
YY18730		0.038	0.49	1.65	13	0.09	2.29	56	4.2
YY18731		0.051	0.30	1.03	29	0.15	2.73	69	0.9
YY18733		0.045	0.19	3.64	44	0.24	18.00	69	<0.5
YY18734		0.024	0.10	2.30	22	0.12	14.00	50	0.8
YY18735		0.015	0.17	2.38	28	0.19	16.20	49	<0.5
YY18736		0.031	0.18	2.61	46	0.24	12.55	74	<0.5
YY18737		0.036	0.14	3.51	31	0.35	13.30	64	<0.5
YY18738		0.030	0.14	1.30	19	0.14	5.15	34	<0.5
YY18739		0.061	0.18	1.22	32	0.13	4.58	57	<0.5
YY18740		0.071	0.21	1.65	42	0.21	4.34	63	0.6
YY18741		0.071	0.22	1.36	34	0.15	4.67	56	<0.5
YY18742		0.078	0.23	1.18	38	0.16	4.73	65	<0.5
YY18743		0.080	0.22	1.07	40	0.11	4.15	65	<0.5
YY18744		0.090	0.24	1.06	48	0.12	3.97	68	<0.5
YY18745		0.103	0.30	1.11	44	0.17	4.58	79	0.6
YY18746		0.082	0.15	0.91	56	0.16	4.83	76	0.9
YY18747		0.110	0.32	1.19	52	0.13	6.37	80	1.0
YY18748		0.107	0.31	1.95	51	0.09	9.04	88	1.1
YY18749		0.126	0.29	1.82	52	0.13	9.67	85	4.2
YY18750		0.108	0.26	4.04	51	0.13	16.20	80	1.9
YY18751		0.100	0.23	1.51	55	0.16	7.79	75	1.6
YY18752		0.101	0.22	2.11	54	0.09	9.23	68	1.4
YY18753		0.088	0.26	1.79	50	0.21	7.94	73	0.8
YY18754		0.094	0.22	1.59	55	0.14	6.78	76	0.5

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Recvd Wt.	Au	Ag	Al	As	Au	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
YY18755		0.44	0.001	0.26	2.22	7.1	<0.02	<10	200	0.85	0.35	0.29	0.19	41.9	12.0	45
YY18756		0.46	0.002	0.21	2.26	7.4	<0.02	<10	220	0.91	0.28	0.39	0.26	48.5	13.5	59
YY18757		0.38	0.002	0.17	2.19	6.7	<0.02	<10	170	0.90	0.23	0.36	0.18	52.9	14.3	65
YY18758		0.38	0.001	0.20	2.38	4.7	<0.02	<10	240	0.96	0.17	0.55	0.19	40.1	16.8	113
YY18759		0.33	0.004	0.06	2.65	8.3	<0.02	<10	130	1.13	0.31	0.18	0.26	42.3	16.7	38

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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
	LOD	0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
YY18755		4.07	25.2	3.14	7.46	0.07	0.02	0.04	0.031	0.12	22.1	28.9	1.01	398	1.17	0.01
YY18756		5.73	38.2	3.50	8.28	0.08	0.02	0.02	0.039	0.15	23.6	33.3	1.11	619	1.35	0.01
YY18757		6.18	32.1	3.39	8.00	0.08	0.02	0.02	0.030	0.13	24.7	32.9	1.01	475	1.12	0.02
YY18758		6.74	43.7	3.40	7.88	0.08	0.03	0.02	0.029	0.22	19.3	37.5	1.62	590	0.94	0.02
YY18759		3.38	23.3	3.52	7.60	0.07	0.04	0.04	0.049	0.17	18.8	29.5	0.76	605	1.39	0.01

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

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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

Finalized Date: 2-SEP-2019
Account: RCM

Project: CN

CERTIFICATE OF ANALYSIS WH19198431

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
YY18755		1.31	27.2	710	18.9	24.6	<0.001	0.03	0.40	4.4	0.6	0.7	19.6	<0.01	0.04	4.3
YY18756		1.10	35.4	670	19.5	22.4	<0.001	0.03	0.36	4.6	0.6	0.8	23.8	<0.01	0.05	4.2
YY18757		1.30	43.3	560	13.1	22.6	<0.001	0.02	0.38	4.4	0.3	0.7	21.6	<0.01	0.05	4.5
YY18758		0.99	57.9	530	8.6	21.3	<0.001	0.02	0.31	5.4	0.5	0.6	25.1	<0.01	0.03	3.8
YY18759		2.28	28.4	520	23.0	25.0	<0.001	0.03	0.45	4.0	0.8	1.1	15.5	<0.01	0.06	5.7

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

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Finalized Date: 2-SEP-2019
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Project: CN

CERTIFICATE OF ANALYSIS WH19198431

Sample Description	Method	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41
	Analyte	Ti	Tl	U	V	W	Y	Zn	Zr
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.005	0.02	0.05	1	0.05	0.05	2	0.5
YY18755		0.093	0.25	1.73	60	0.28	7.05	96	0.7
YY18756		0.091	0.19	1.48	65	0.21	8.80	104	0.6
YY18757		0.092	0.18	1.21	66	0.15	7.79	84	0.7
YY18758		0.120	0.18	1.44	71	0.13	11.65	82	1.0
YY18759		0.102	0.21	1.22	59	0.16	5.40	86	1.6

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

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CERTIFICATE OF ANALYSIS WH19198431

CERTIFICATE COMMENTS

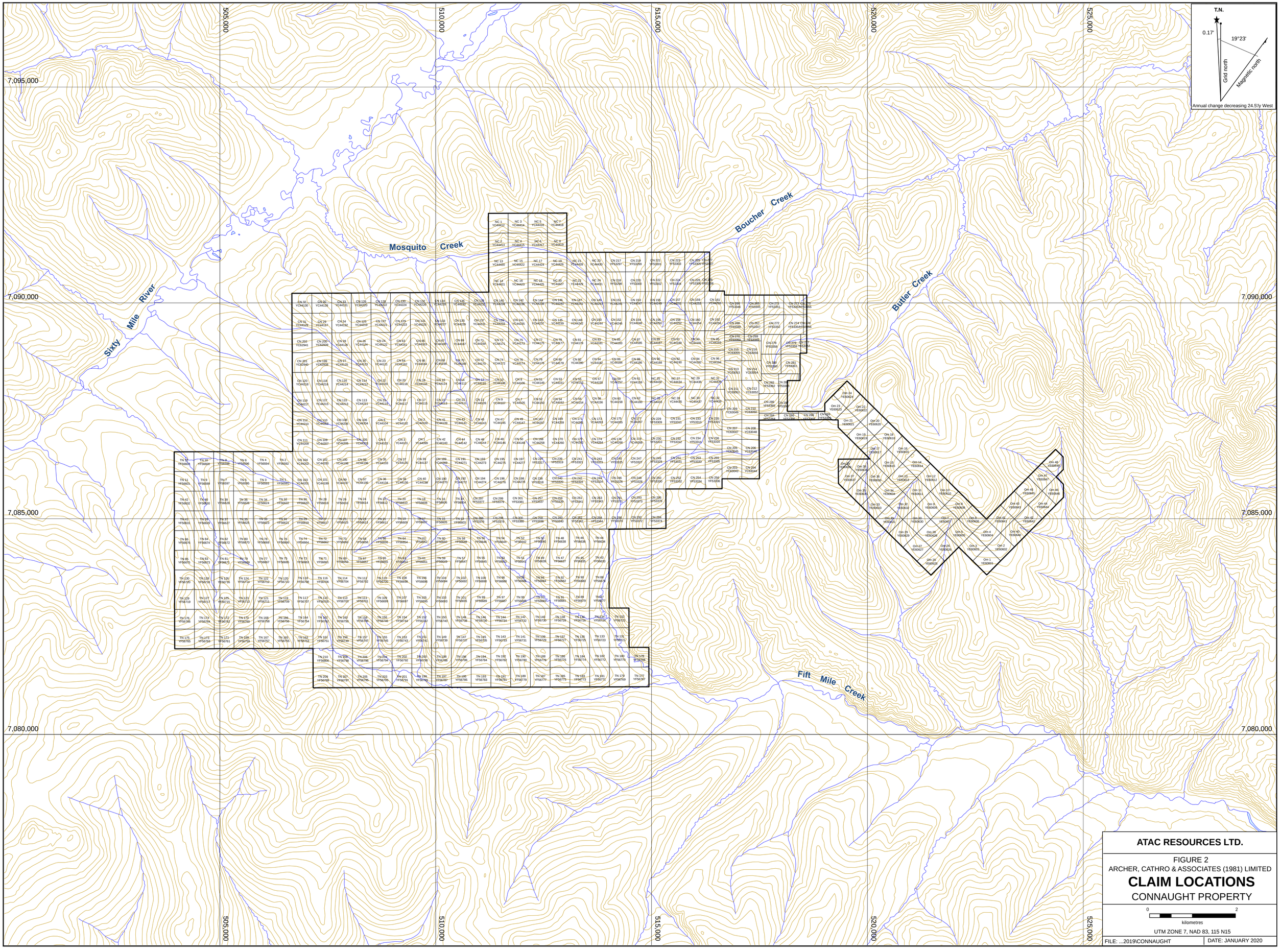
ANALYTICAL COMMENTS

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

LABORATORY ADDRESSES

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

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-ICP21 ME-MS41



ATAC RESOURCES LTD.

FIGURE 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

CLAIM LOCATIONS

CONNAUGHT PROPERTY

0 2

kilometres

UTM ZONE 7, NAD 83, 115 N15

FILE: ...2019\CONNAUGHT | DATE: JANUARY 2020

514,000
516,000
518,000
520,000
522,000
7,090,000
7,088,000
7,086,000
7,084,000

T.N.
0.17°
19°23'
Grid north
Magnetic north
Annual change decreasing 24.5'/y West

PROPERTY BOUNDARY

STRIKE AND DIRECTIONAL DIP
FRACTURE
VEIN WITH DIP
STRIKE WITH VERTICAL DIP
FOLIATION
HORNFELSING
MAGNETITE FLOODING AND BRECCIATION
LINEAR-RECESSIVE
CONTACT
ROAD
LATE CRETACEOUS HBLD-BI GRANODIORITE - VARIABLY ALTERED.
FINE GRAINED, STRONGLY MAGENTIC INTRUSIVE - GABBRO?
SKARN HORIZON DIOP±MAG±EPI±CHL±GAR SKARN
NASINA ASSEMBLAGE (SLIDE MOUNTAIN EQUIVALENT?) HIGHEST METAMORPHIC GRADE, NICELY BANDED MICACEOUS QUARTZITE/GRAHITIC QUARTZITE MUSCOVITE-BIOTITE (M vs B) & (G)

ATAC RESOURCES LTD.

FIGURE 6
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY GEOLOGY

CONNAUGHT PROPERTY

0 1
kilometres

UTM ZONE 7, NAD 83, 115 N15

FILE: ...2019\CONNAUGHT | DATE: JANUARY 2020

510,000

515,000

7,090,000

7,085,000

T.N.

0.17°

19°23'

Grid north

Magnetic north

Annual change decreasing 24.5'/y West

PROPERTY BOUNDARY

Road

ATAC RESOURCES LTD.

FIGURE 13

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ROCK SAMPLE LOCATIONS

CONNAUGHT PROPERTY

0 1

kilometres

UTM ZONE 7, NAD 83, 115 N15

FILE: ..\2019\CONNAUGHT

DATE: JANUARY 2020

508,000
510,000
512,000
514,000
516,000
518,000
520,000
522,000

7,092,000
7,090,000
7,088,000
7,086,000
7,084,000
7,082,000

PROPERTY BOUNDARY

T.N.
0.17°
19°23'
Grid north
Magnetic north
Annual change decreasing 24.5'/y West

Road
Historical veins

Gold-in-soil (ppb)
100 to 200
50 to 100
20 to 50
10 to 20
5 to 10
0 to 5

0 1,000
metres

UTM ZONE 7, NAD 83, 115 N15

ATAC RESOURCES LTD.

FIGURE 14
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

GOLD SOIL GEOCHEMISTRY

CONNAUGHT PROPERTY

FILE: ...2019\CONNAUGHT | DATE: JANUARY 2020

508,000
510,000
512,000
514,000
516,000
518,000
520,000
522,000

7,092,000
7,090,000
7,088,000
7,086,000
7,084,000
7,082,000

PROPERTY BOUNDARY

T.N.
0.17°
19°23'
Grid north
Magnetic north
Annual change decreasing 24.5'/y West

Historical veins
Road

Silver-in-soil (ppm)
>5 <44.1
>2 <5
>1 <2
>0.5 <1
>0.2 <0.5
0 <0.2

0 1,000
metres

UTM ZONE 7, NAD 83, 115 N15

ATAC RESOURCES LTD.

FIGURE 15
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

SILVER SOIL GEOCHEMISTRY

CONNAUGHT PROPERTY

FILE: ...2019\CONNAUGHT | DATE: JANUARY 2020

508,000
510,000
512,000
514,000
516,000
518,000
520,000
522,000

7,092,000
7,090,000
7,088,000
7,086,000
7,084,000
7,082,000

PROPERTY BOUNDARY

T.N.
0.17°
19°23'
Grid north
Magnetic north
Annual change decreasing 24.5'/y West

Historical veins
Road

Lead-in-soil (ppm)
≥1,000 ≤8,390
≥500 <1,000
≥200 <500
≥100 <200
≥50 <100
>0 <50

ATAC RESOURCES LTD.

FIGURE 16
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

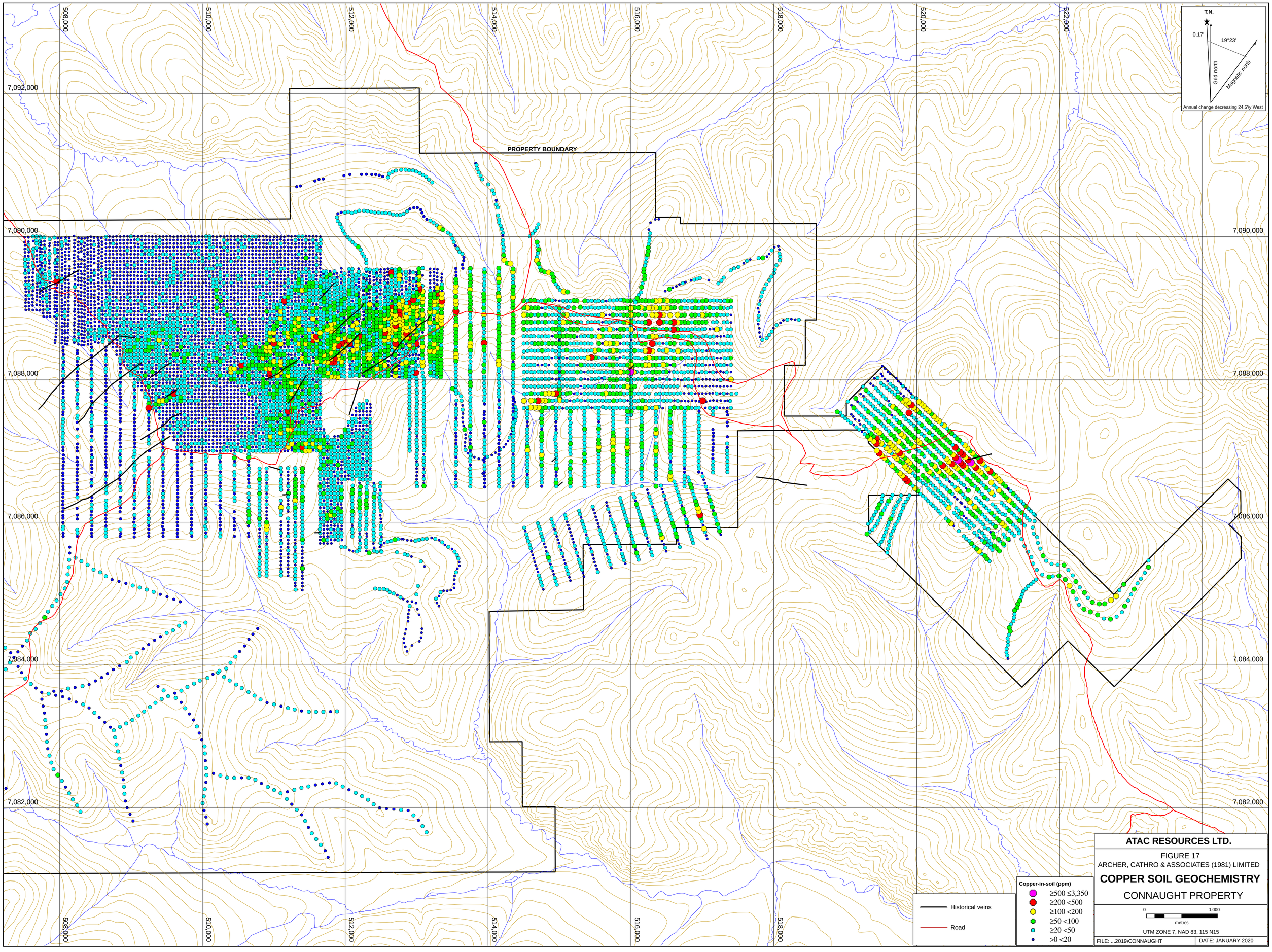
LEAD SOIL GEOCHEMISTRY

CONNAUGHT PROPERTY

0 1,000
metres

UTM ZONE 7, NAD 83, 115 N15

FILE: ...2019\CONNAUGHT | DATE: JANUARY 2020



ATAC RESOURCES LTD.

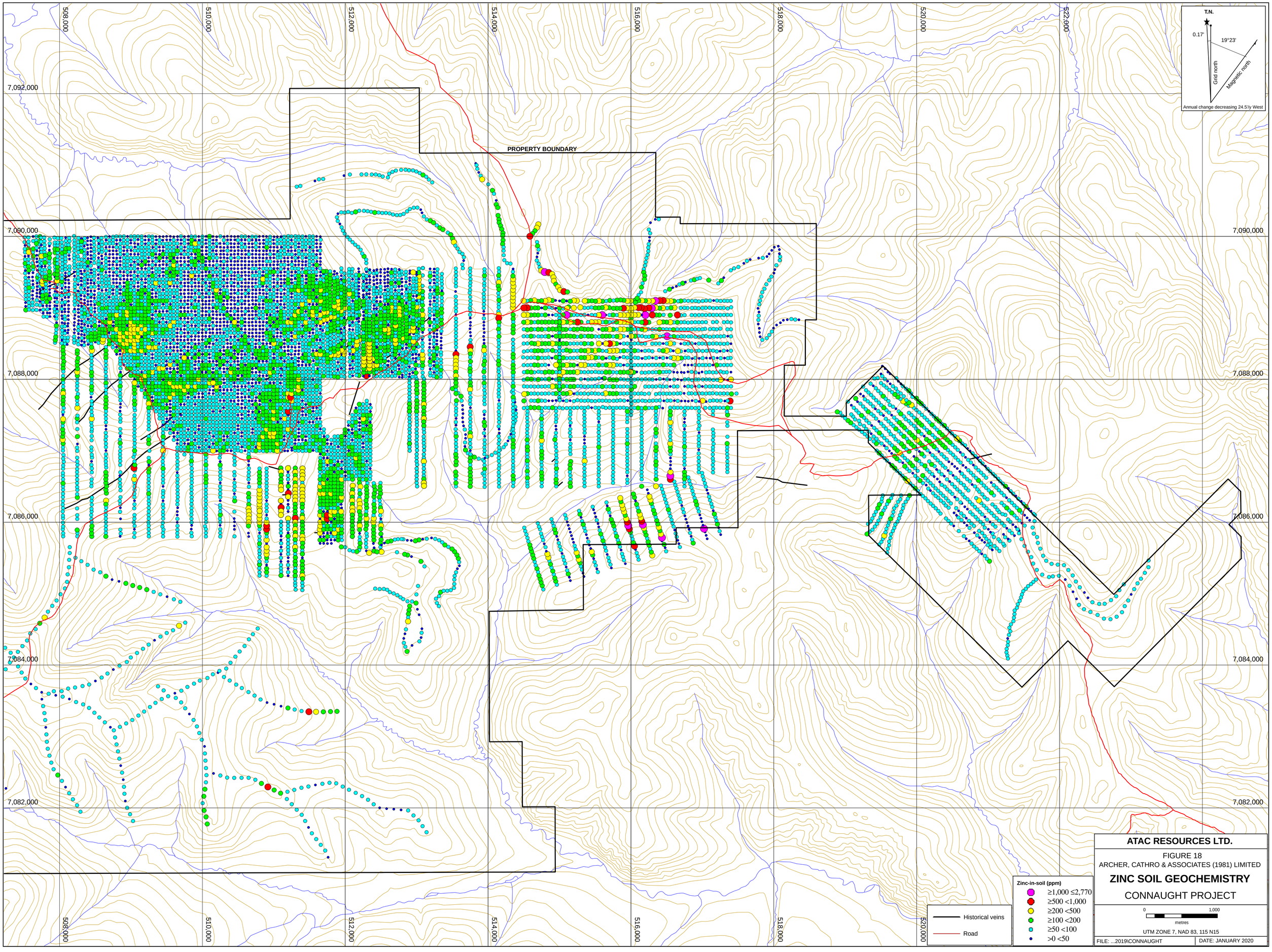
FIGURE 17

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

COPPER SOIL GEOCHEMISTRY

CONNAUGHT PROPERTY

FILE: ...2019\CONNAUGHT | DATE: JANUARY 2020


508,000
510,000
512,000
514,000
516,000
518,000
520,000
522,000
7,092,000
7,090,000
7,088,000
7,086,000
7,084,000
7,082,000
PROPERTY BOUNDARY
T.N.
0.17°
19°23'
Grid north
Magnetic north
Annual change decreasing 24.5'/y West
Historical veins
Road
Zinc-in-soil (ppm)
≥1,000 ≤2,770
≥500 <1,000
≥200 <500
≥100 <200
≥50 <100
>0 <50
0
1,000
metres
UTM ZONE 7, NAD 83, 115 N15
ATAC RESOURCES LTD.
FIGURE 18
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ZINC SOIL GEOCHEMISTRY
CONNAUGHT PROJECT
FILE: ...2019\CONNAUGHT
DATE: JANUARY 2020