

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

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Geochemical and geological

TOTAL COST: \$2337.50

AUTHOR(S): Tao Song

SIGNATURE(S): Tao Song

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): not required

YEAR OF WORK: 2019

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5779610/ March 26, 2020

PROPERTY NAME: Philippon Jade

CLAIM NAME(S) (on which the work was done): Philippon Jade, title number 600662

COMMODITIES SOUGHT: Nephrite jade and nickel

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 104I-106

MINING DIVISION: Liard

NTS/BCGS: 104I-07

LATITUDE: 58 ° 22 ' 6 " LONGITUDE: 128 ° 55 ' 25 " (at centre of work)

OWNER(S):

1) 1108948 BC LTD.

2) _____

MAILING ADDRESS:

3983 18th AVE W, Vancouver, BC, V6S 1B6

OPERATOR(S) [who paid for the work]:

1) 1108948 BC LTD.

2) _____

MAILING ADDRESS:

3983 18th AVE W, Vancouver, BC, V6S 1B6

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
ultramafics, serpentinite, jade, Intermontane belt, Cache Creek Terrane, Mississippian to Permian

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 37077

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	0.17km2	600662	\$500
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock	2 samples, 51 elements aqua regia ICP-MS		\$500
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic	1 sample, thin section	600662	\$500
Mineralographic	1 sample, XRD	600662	\$500
Metallurgic			
PROSPECTING (scale, area)	0.17 km2	600662	\$337.50
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	\$2337.50

**Assessment Report
on the
Philippon Jade Property
Mineral Claims**

Statement of Work Event Numbers:

5779610

Location:

**Liard Mining Division, British Columbia
NTS 104I-07**

Centered on:

**504450 E, 6469750 N
NAD 83 UTM Zone 9 in Meters**

Project Period:

June 18, 2019

Owner:

1108948 BC LTD.

3983 18th AVE W, Vancouver, BC, V6S 1B6

Authors:

Tao Song, B.Sc., G.I.T., Vancouver, BC

Submitted:

March 26, 2020

Summary

Geological mapping and geochemical sampling were conducted by the author at the Philippon Jade property on Jun 18, 2019. The property lies about 64 km east of Dease Lake. Access to the property was by helicopter.

The goal of this exploration was to identify prospective grounds for jade and nickel. Two rock samples were submitted for chemical analysis. One rock sample was submitted for detailed petrographic description with photos and one rock sample was submitted for XRD testing.

A contact zone between serpentinite and limy meta-sediments was identified. One nephritized rock was proved to contain mostly tremolite (nephrite jade). The quality is unknown. The contact zone is considered highly prospective for jade. One rock sample returned 0.18% Ni and 0.14% Cr.

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1. Introduction

1108948 BC LTD. (the company) owns 6 mineral claim blocks in the Dease Lake area, namely 'B' showing, King, King Mountain Jade, Philippon Jade, Greenrock Jade North, and TJ, of Northwestern BC. The author was contracted by the company to conduct an exploration program on all six properties. The program was implemented from Jun 15 to Jun 25, 2019 with an aim to locate prospective grounds for jade and nickel. Surface prospecting is the most cost-effective method to explore for jade, and geochemical analysis is used to instruct nickel occurrences. XRD analysis and petrographic studies were occasionally utilized to improve the understanding and confidence in jade or nickel mineralization.

2. Property Location and Access

The Philippon Jade property is located southeast of Boulder City, approximately 64 km east of Dease Lake, BC (Figure 1). It is on a gentle to moderate mountain slope. There is a trail going along the Letain Creek, but no direct route to the property. Access to the property is easiest by helicopter from Dease Lake.

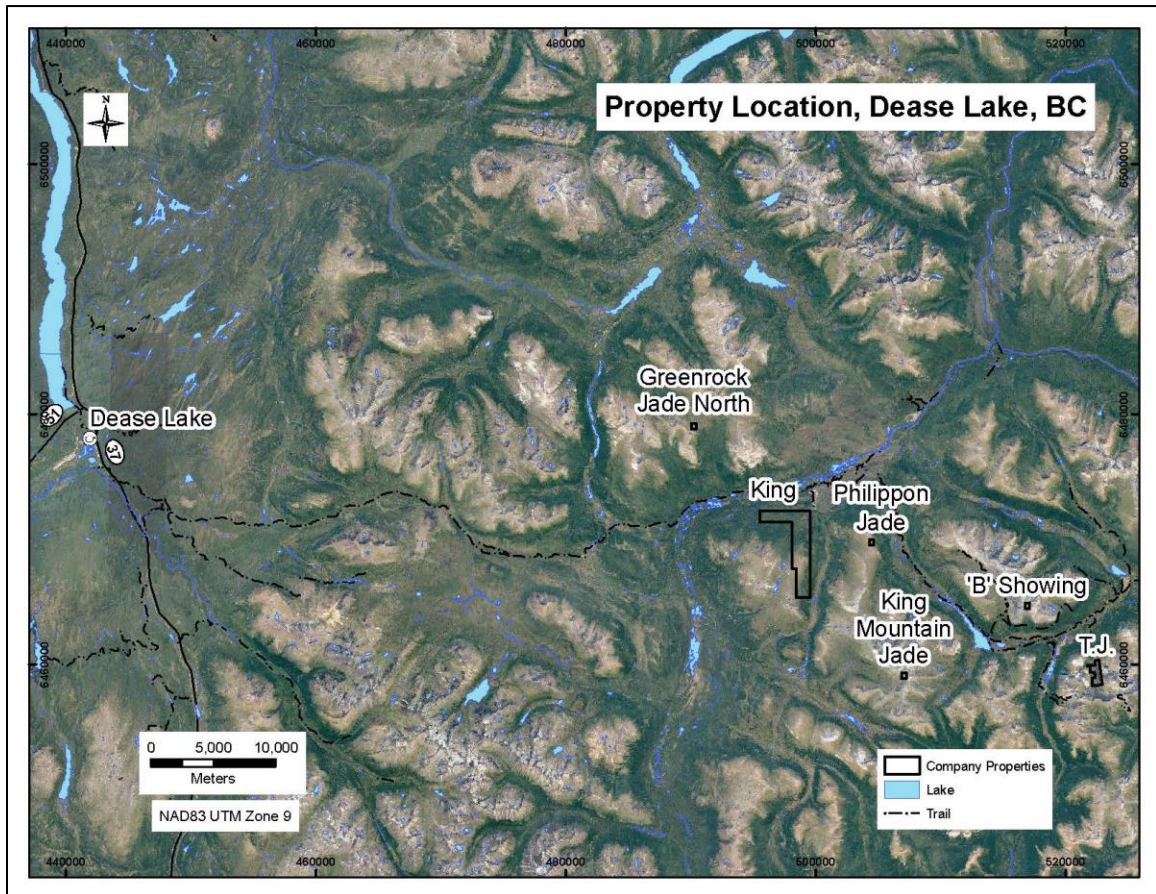


FIGURE 1. PHILIPPON JADE PROPERTY LOCATION

3. Claims and Ownership

Philippon Jade property comprises a single cell mineral claim in the Dease Lake area, as shown in Table 1 and Figure 2.

TABLE 1. PHILIPPON JADE CLAIMS

Owner	Type	Claim Name	Claim Number	Hectare
1108948 BC LTD.	Mineral	PHILIPPON JADE	600662	17.0

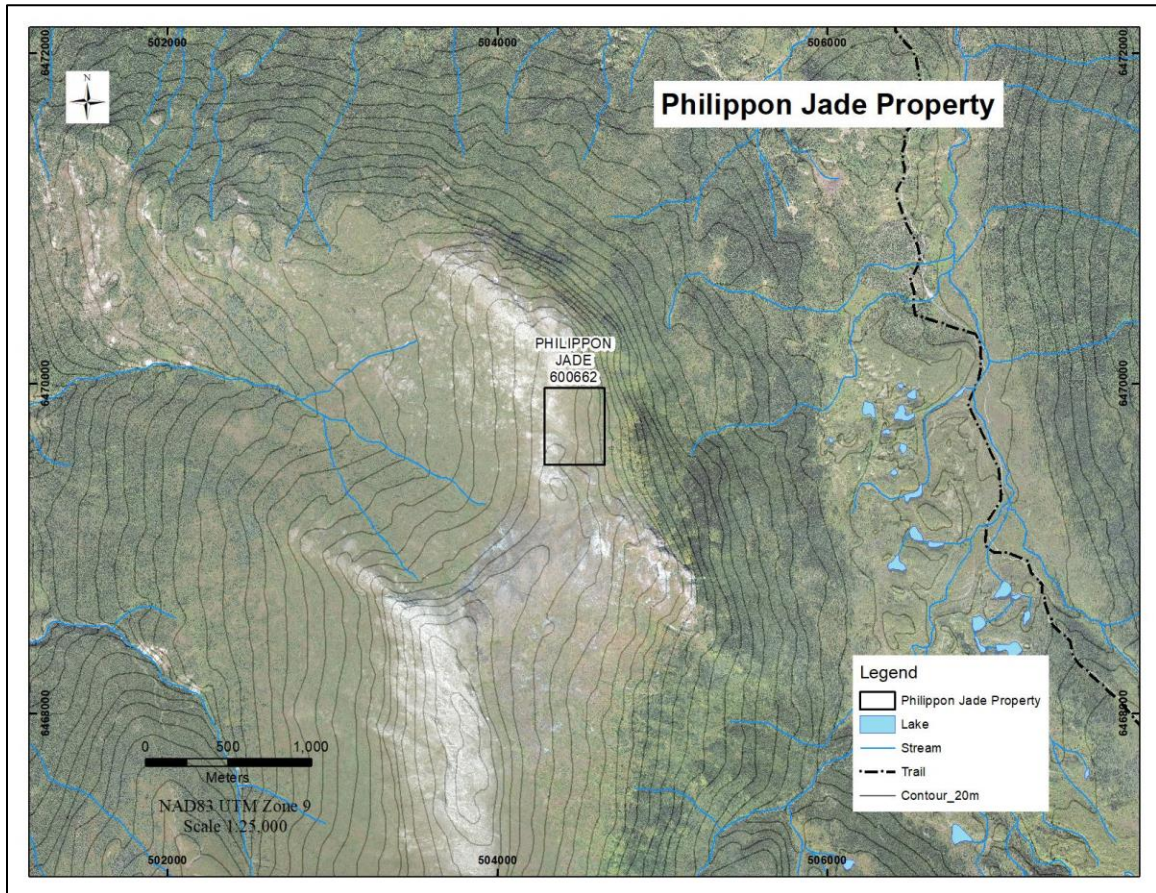


FIGURE 2. PHILIPPON JADE CLAIM AND TOPOGRAPHY

4. Geography and Physiography

The property lies in the southern part of the Stikine Range of the Cassiar Mountain System. To the west of the system is the Coast Mountain System, and to the east of the system is Rocky Mountain System.

Regional topography is gently sloping to moderately steep glacier eroded terrain. There are steep sided cirque valleys and some small cirque lakes. Steep ridges and talus slope often occur at the upper slope of the cirque valleys. The vegetation is primarily alpine meadows, and minor alpine fir, spruce and shrubs. On some of the lower elevations, sub-alpine fir and spruce are common.

The Philippon Jade claim is situated on a mountain with gentle to moderate slopes. Elevations on the property vary from 1620 to 1700m.

5. Regional Geology

5.1 Regional Geology

The Philippon Jade property is located within the northern Intermontane belt. Regional geology consists of an assemblage of rocks with oceanic affinity that belongs to the Cache Creek Terrane (CCT). CCT is thought to be an allochthon underlain by the Stikinia Terrane (Gabrielse, 1998). The Cache Creek terrane is fault bounded by the King Salmon fault to the south, and by the Thibert fault to the north (Figure 3).

CCT is divided by the Nahlin fault into two distinctive rock units: 1) ultramafics to the north and 2) sediments to the south. The Nahlin fault zone is a series of fault strands within the Cache Creek terrane that are thought to have a protracted history, initially forming as a low angle, west directed thrust during ophiolite obduction and has subsequently been tilted into a high angle structure (Mihalynuk, 1997).

Five lithotectonic units from the Upper Mississippian to Late Permian CCT have been mapped by Gabrielse (1998). Within the region, the two main rock types of CCT are the ultramafics (uMPCum) and the Kedaha Formation (MTrCK). The remaining three rock units, limestone (Sinwa Formation, uTrSlS), mafic volcanics (Kutcho assemblage, uPTrKv) and gabbro (Nakina Formation, LMPCN) occur as fault bounded rock bodies typically in unconformable contact with ultramafics, or Kedaha formation. The ultramafics consist of predominantly serpentized peridotite, with lesser dunite, pyroxenite, gabbro, and small pods of jade and listwanite. The Kedaha Formation consists of variably deformed phyllite, slate, argillite and siltstone.

Ultramafic rocks are likely to represent the lower part of the ophiolite assemblage. The ultramafics were later exhumed during progressive deformation along re-activated faults. Faulting and shearing are commonly developed within CCT.

5.2 Economic Geology

To the east of Dease Lake, several metal deposit types were recognized, including copper porphyry (Eaglehead), Zn-Cu-Pb volcanogenic massive sulfide (Kutcho), Ni-Fe alloy awaruite (Orca and Wale), and Alaskan type Ni-Cu-Co sulfide (Turnagain). The region is also well known for asbestos and nephrite jade deposits.

The region has 22 documented jade occurrences in BC Minfile, either as in-situ lenses or as placer boulders. However, quality and quantity are highly variable. Economic in-situ jade deposits are found at Provencher, Polar and Kutcho. Placer jade deposits are principally found in the Provencher Lake area, Wolverine Lake area, and the Letain Lake area.

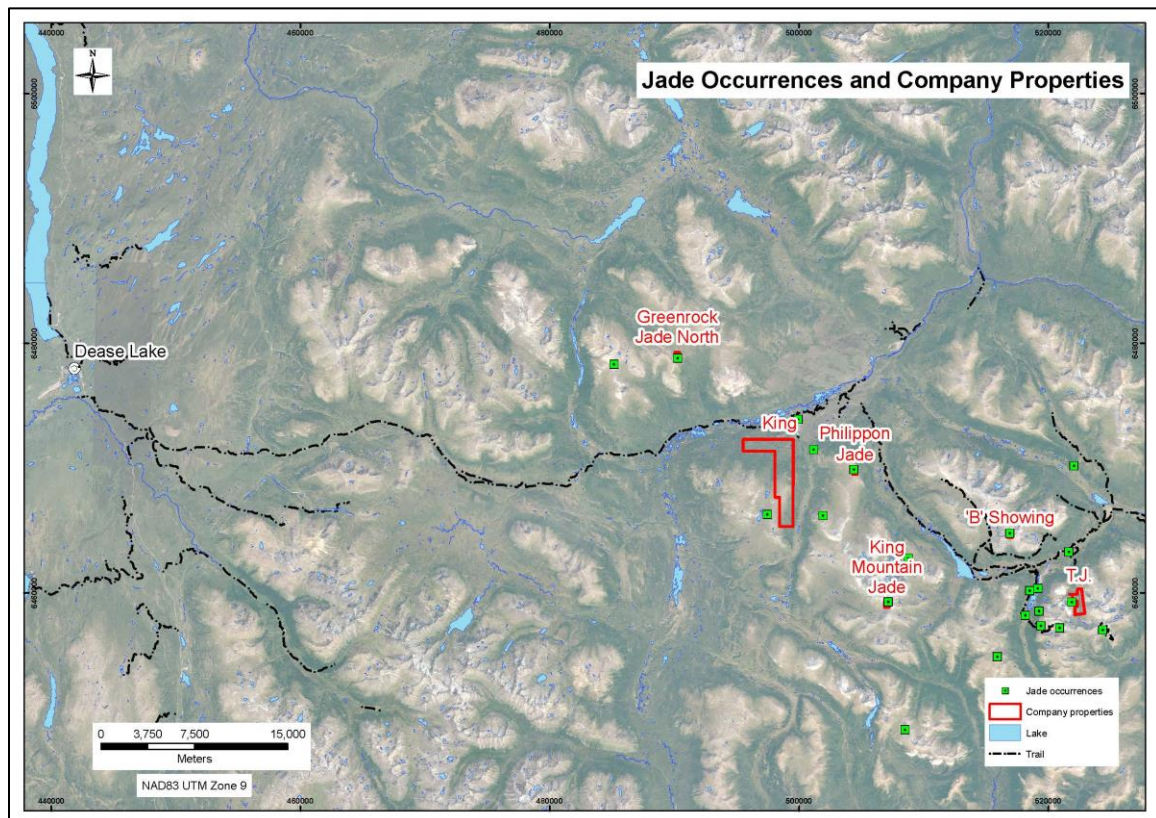


FIGURE 4. JADE OCCURRENCES AND COMPANY PROPERTIES

6. Nephrite Jade Deposit Types

6.1 Definition of Nephrite Jade

Jade is a commercial term that refers to two mineral groups: 1) amphibole, 2) pyroxene. Nephrite jade is a habit of tremolite that belongs to the amphibole group.

- Chemical composition: tremolite – Ferro actinolite, $\text{Ca}_2(\text{Mg}^{2+}, \text{Fe}^{2+})_5 \text{Si}_8\text{O}_{11}(\text{OH})_2$. Actinolite is no longer a valid mineral species (Hawthorne 2013).
- Texture: massive, felted
- Grain size: microcrystalline - cryptocrystalline

6.2 Deposit Types

Nephrite is produced by contact and/or infiltration metasomatism in two different settings (Harlow 2014):

- 1) dolomite replacement by silicic fluids associated with “granitic” plutonism;
- 2) serpentinite replacement by Ca-metasomatism at contacts with more silicic rock, such as leucocratic igneous rock, graywacke, argillite or chert.

Canadian nephrite deposits belong to the serpentinite replacement type.

6.3 Temporal and Spatial

Most nephrite deposits occur in the Phanerozoic age along the edge of orogenies (Figure 5). Two outliers are Wisconsin nephrite in America and Cowell nephrite in Australia. They formed at around 1600Ma before the assemblage of Rodinia. Mountain building process provides an opportunity for ultramafics to become completely serpentinitized, which is a crucial stage in preparing the host rock for jade creation. Subsequent intrusions and deformation generated ideal Ca-rich fluids. Nephrite jade is formed when Ca-rich fluids meet the completely serpentinitized ultramafics.

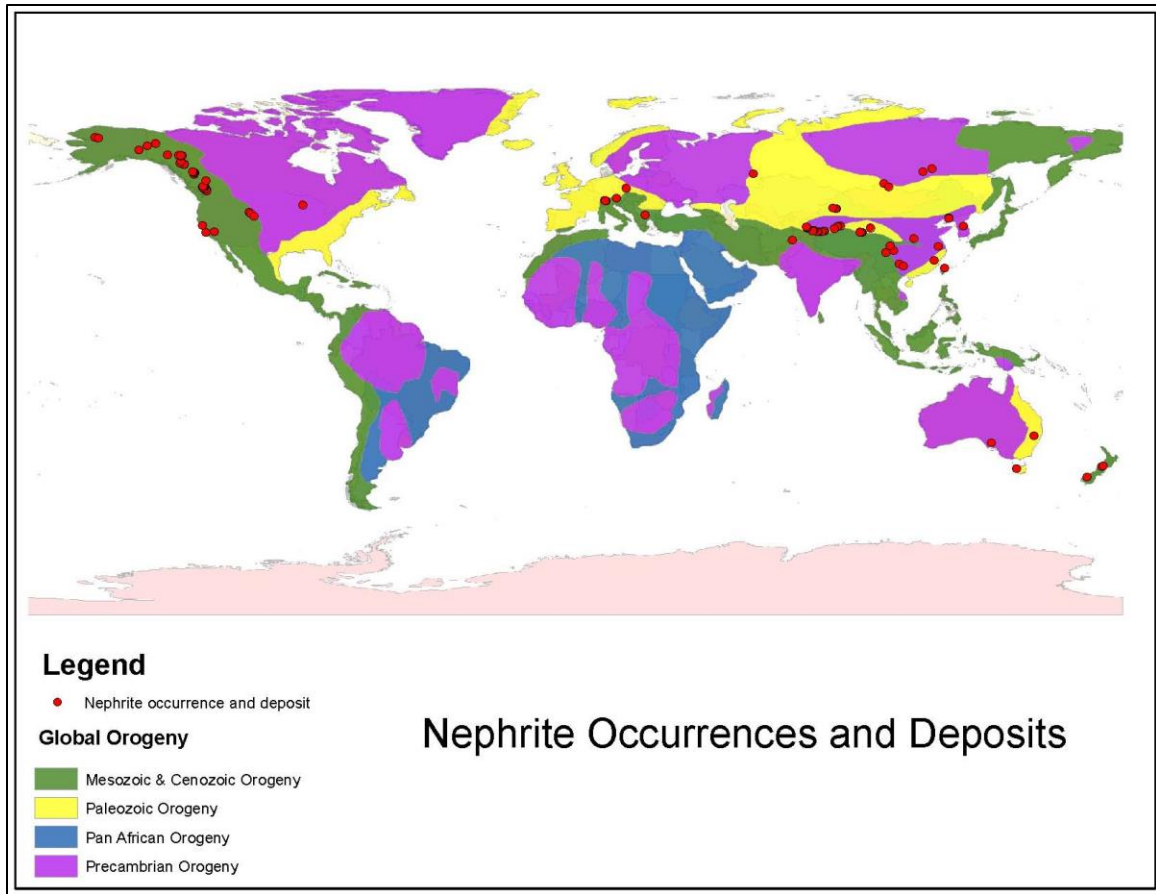


FIGURE 5. JADE OCCURRENCES IN THE WORLD

7. Exploration History

Minfile occurrence 104I-106 was documented as a jade showing. The occurrence is underlain by upper Mississippian to Permian ultramafic rocks of the Cache Creek Complex consisting of peridotite, dunite and pyroxenite which are generally serpentized. Pods of nephrite jade are commonly found in these ultramafic rocks. One such locality, plotted on Geological Survey of Canada Open File map 2779, occurs on a ridge overlooking the headwaters of Philippon Creek.

8. Exploration 2019

Rock sampling was conducted on Jun 18, 2019. Four rock samples of interest were submitted: 1) two rock samples sent for chemical analysis, 2) one rock sample sent for petrographic studies, 3) one rock sample sent for XRD testing. Rock samples of no interest were collected but not submitted for any analysis.

Due to the severe weather of rain and hail, no pictures were taken. Camera battery was exhausted. Drone survey was canceled as well.

8.1 Rock Sampling

Sample sites were recorded using Garmin GPS devices using projection NAD83 Zone 9. The rock samples were described and tested for hardness and magnetism. Moh's hardness was determined by Mineralab's hardness test kit, which includes eight points from 2 to 9 on Moh's hardness scale. Two hardness plates have hardness of 3.5 and 5.5. Magnetism was tested by pencil magnet with clip and pendulum.

Two rock samples were submitted for geochemical analyses, one rock sample was submitted for petrographic description and one rock sample was submitted for XRD testing (Figure 6). Nickel and chromium values of geochemical rock samples were plotted in Figure 7 and Figure 8.

TABLE 2. GEOCHEMICAL ROCK SAMPLES AND DESCRIPTION

Name	Easting	Northing	Type	Description
PR02	504385	6469758	float	medium green, with some dark brown minerals, altered ultramafics
PR03	504434	6469711	float	green, moderately serpentinized ultramafics, with patchy black green, rounded, hardness 5.7, strong magnetism, with a 1mm asbestos veinlet

TABLE 3. PETROGRAPHIC ROCK AND XRD ROCK SAMPLES

Name	Easting	Northing	Type	Analysis	Description
PT01	504326	6469776	float	Thin section	medium green, 30x30cm, rounded, hardness, non-magnetic, has some shiny minerals, nephritized
PT02	504347	6469761	float	XRD	medium green, nephritized serpentinite, 30x30cm, rounded, hardness 6.5, magnetic

8.1.1 XRD Testing

One rock sample (PT02) was sent for XRD testing. The result shows that the rock contains 74.3% serpentine, 21% magnetite, 3% dolomite, and 1.8% quartz. (Appendix F).

XRD analysis was done at UBC by Dr. Elisabetta Pani. One rock sample was reduced to the optimum grain-size range for quantitative X-ray analysis (<10 µm) by grinding under ethanol in a vibratory McCrone Micronizing Mill for 10 minutes. Continuous-scan X-ray powder-diffraction data were collected over a range 3-80°2θ with CoKα radiation on a Bruker D8 Advance Bragg-Brentano diffractometer equipped with an Fe filter foil, 0.6 mm (0.3°) divergence slit, incident- and diffracted-beam Soller slits and a LynxEye-XE detector. The long fine-focus Co X-ray tube was operated at 35 kV and 40 mA, using a take-off angle of 6°. The X-ray diffractograms were analyzed using the International Centre for Diffraction Database PDF-4 using Search-Match software by Bruker. X-ray powder-diffraction data of the samples were refined with Rietveld program Topas 4.2 (Bruker AXS). The results of quantitative phase analysis by Rietveld refinements are given. These amounts represent the relative amounts of crystalline phases normalized to 100%.

8.1.2 Petrographic Description

One rock (PT01) was sent for petrographic studies at Van Petro by Dr. John Payne (Appendix E).

The rock is mostly composed of tremolite, with minor amount of epidote and chlorite. No presence of magnetite suggests calcium has completely reacted with iron to form another mineral. The rock has the same composition as nephrite, but the quality is unknown.

8.1.3 Geochemical Rock Results

Two geochemical rock samples were prepared and assayed by ALS, in North Vancouver, BC. The procedure included crushing and pulverizing the samples to pass 75 microns. A measured amount of the mesh fraction was then digested in hot aqua regia and quantitative determination done by ICP-MS.

One rock sample (PR03) returned 0.18% Ni and 0.14% Cr, as plotted in Figure 7 and Figure 8. Assay certificate was attached in Appendix D.

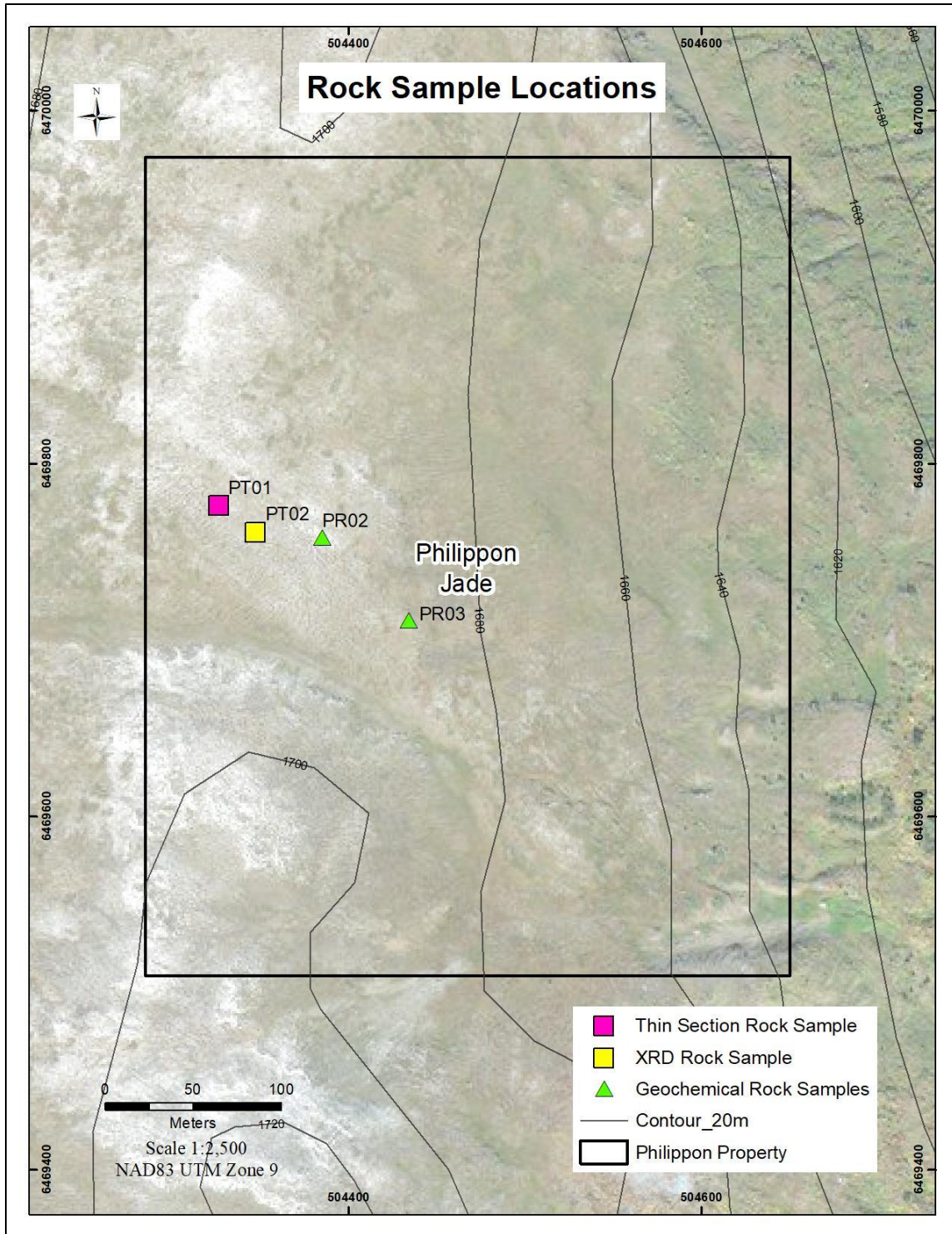


FIGURE 6. ROCK SAMPLE LOCATIONS

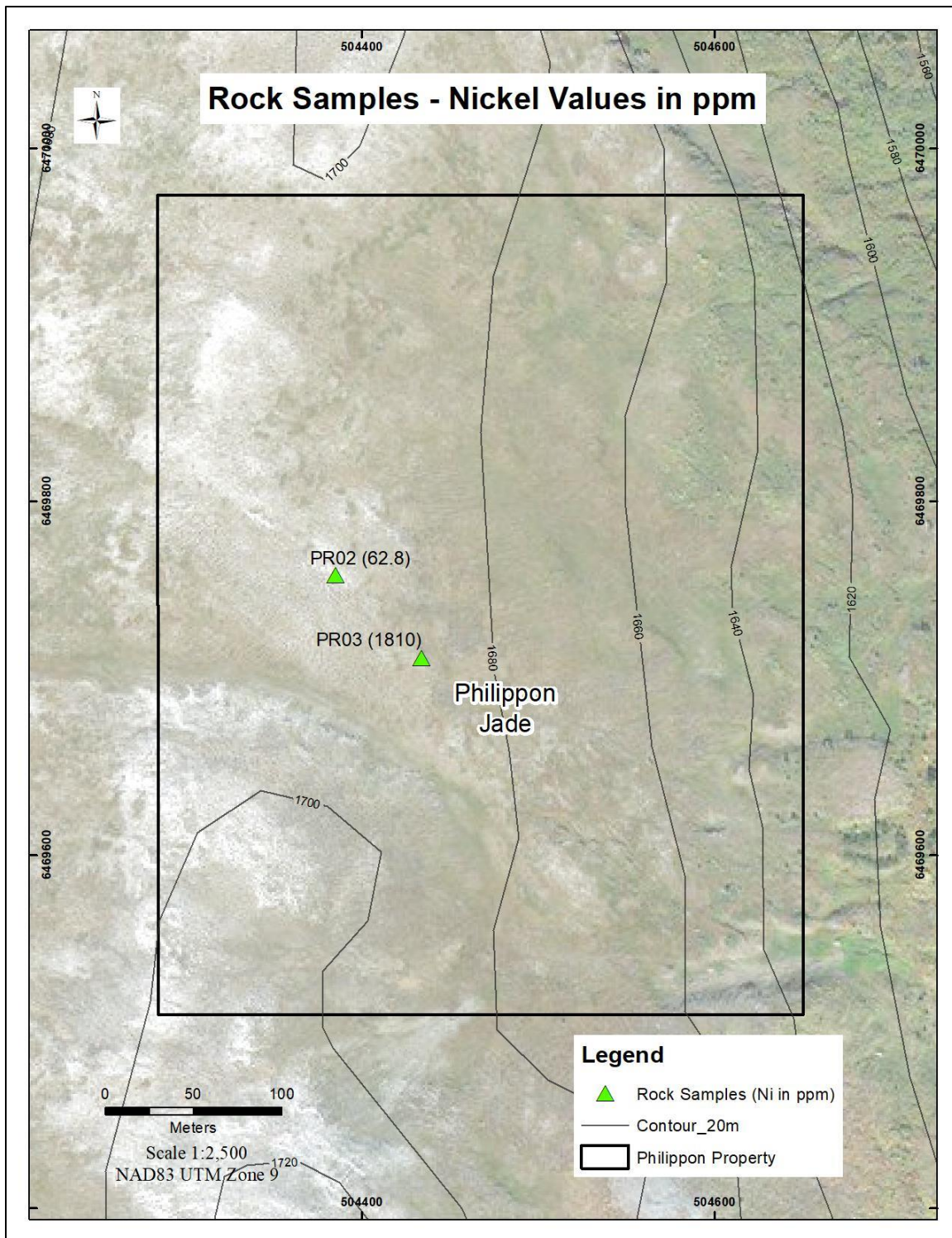


FIGURE 7. ROCK SAMPLE NICKEL VALUES IN PPM

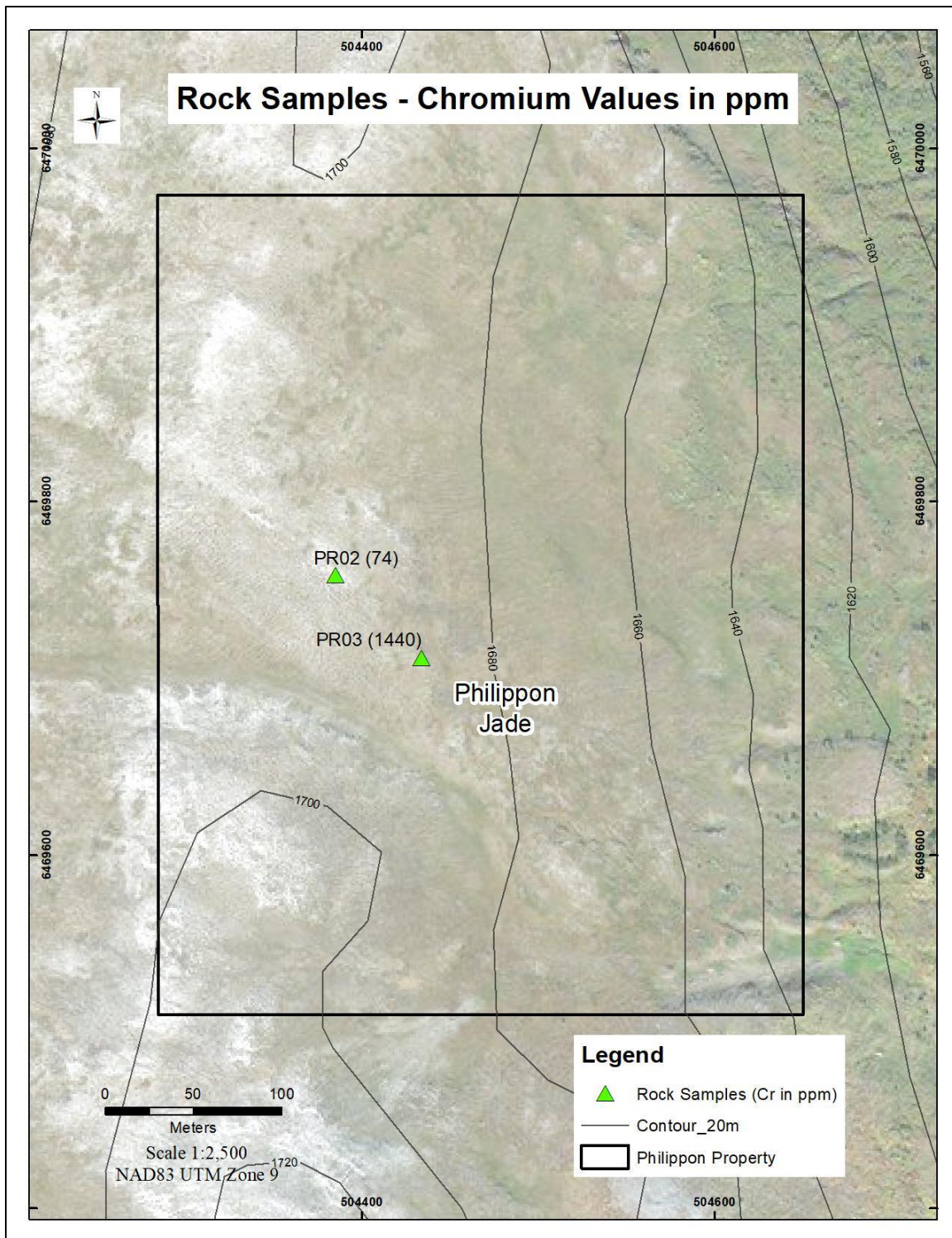


FIGURE 8. ROCK SAMPLE CHROMIUM VALUES IN PPM

8.2 Mapping and Project Geology

The surface of the property is mostly covered by floats. Some rocks crop out or sub-crop out. Three rock units were identified: 1) argillite, 2) limy meta-sediments, 3) serpentinite (Figure 9).

- 1) Argillite: dark grey
- 2) Limy meta-sediments: slightly metamorphosed, limestone rich
- 3) Serpentinite: variably altered ultramafics, magnetic, dark green

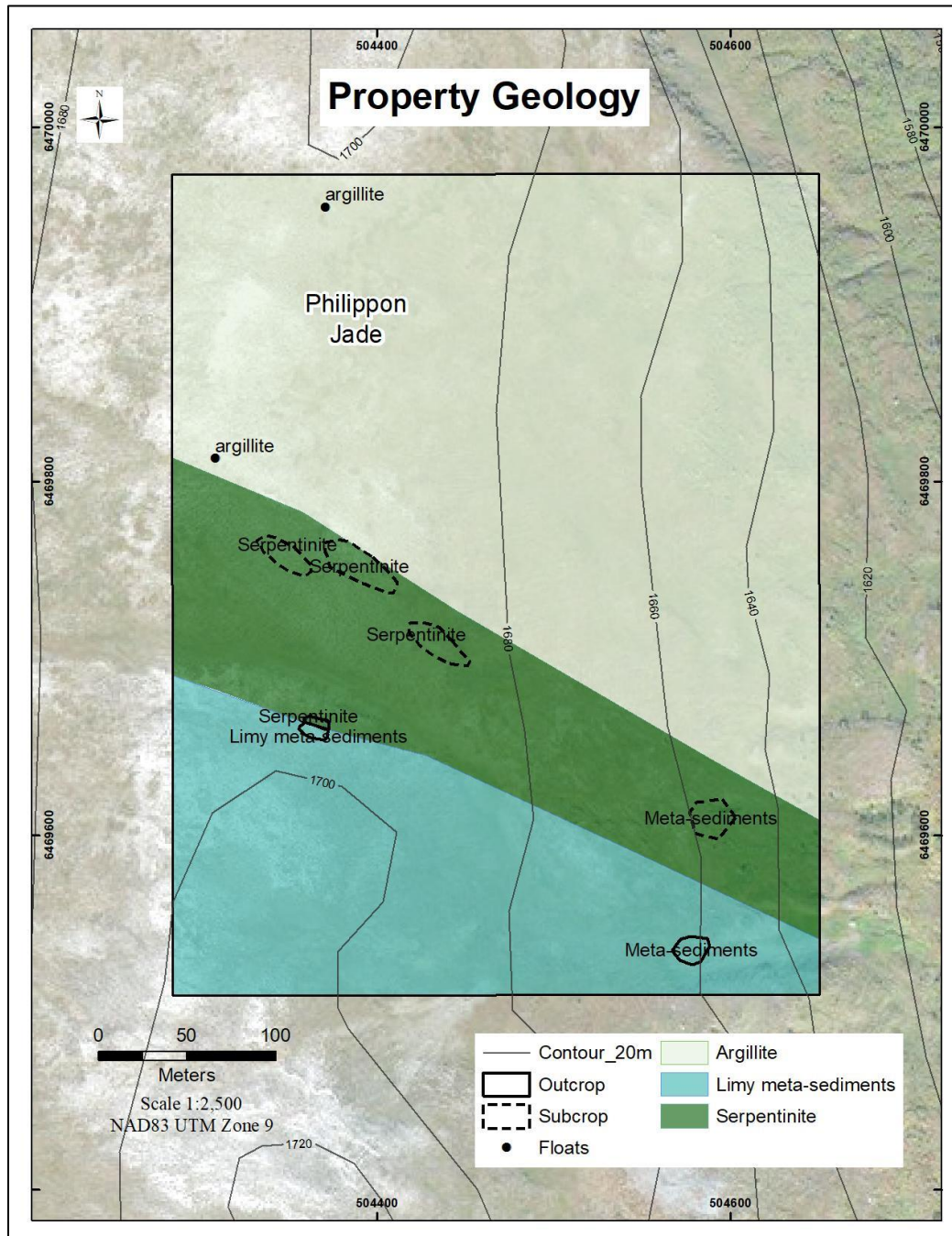


FIGURE 9. PROPERTY GEOLOGY

9. Conclusions & Recommendations

The exploration program successfully identified the contact zone between serpentinite and sediments. One rock was proved to contain mostly tremolite, the same composition as nephrite jade.

The follow-up program should focus on the contact zone between serpentinite and limy sediments. Trenching may be required to expose the rock body.

10. References

Gabrielse, H. (1998). Geology of Cry Lake and Dease Lake Map Areas, North-Central. *Geological Survey of Canada Bulletin 504*.

Harlow, G. (2014). *CHAPTER 10: THE GEOLOGY OF JADE DEPOSITS*.

Mihalynuk, M. (1997). Geology and Mineral Resources of the Tagish Lake. *BCGS Bullentin 105*.

Appendix A - Statement of Qualifications

I, Tao Song, B.Sc., G.I.T., resident at 1188 West Pender Street, Vancouver, BC, certifies that:

- I have a B.Sc. degree in Earth Science from University of British Columbia, 2010.
- I am a registered geologist in training (GIT) of the Association of Professional Engineers and Geoscientists of British Columbia.
- I have practiced as a geologist since 2010 on a number of mineral projects in BC and Yukon.
- I have jade exploration experience since 2015 and made a few jade prospects in the past.
- I am contracted by 1108948 BC LTD. as a geologist to perform exploration. The work described in this report was performed and supervised by me. I consent to the filing and any publication of this Assessment Report.

Tao Song, B.Sc., G.I.T.

Vancouver, BC

March 26, 2020

Appendix B - Statement of Total Expenditures & Statement of Expenditures on Philippon Jade Property

Exploration Work type	Comment	Days			Totals	King	TJ	Greenrock	B showing	Philippon	King Mtn
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*							
Tao Song	Jun 15-25, 2019	9.5	\$600.00	\$5,700.00		4.8	2.7	0.5	0.5	0.5	0.5
Helper, Dave Li	Jun 16-23, 2019	5.5	\$300.00	\$1,650.00		3	1.5	0	0	0.5	0.5
Jade appraiser, Ian Chen	Jun 16-23, 2019	3.0	\$300.00	\$900.00		2	1	0	0	0	0
Yanice Yuan, senior jade miner	Jun 23, 2019	0.5	\$400.00	\$200.00		0	0.5	0	0	0	0
				\$8,450.00	\$8,450.00	\$4,380.00	\$2,570.00	\$300.00	\$300.00	\$450.00	\$450.00
Office Studies	List Personnel (note - Office only, do not include field days)										
Literature search	Tao Song	1.2	\$600.00	\$720.00		0.8	0.4	0	0	0	0
Report preparation	Tao Song	5.1	\$600.00	\$3,060.00		2	1.5	0.4	0.4	0.4	0.4
Other (specify)	GIS	2.0	\$600.00	\$1,200.00		0.6	0.6	0.2	0.2	0.2	0.2
				\$4,980.00	\$4,980.00	\$2,040.00	\$1,500.00	\$360.00	\$360.00	\$360.00	\$360.00
Remote Sensing	Area in Hectares / Enter total invoiced amount or list personnel										
Aerial photography	Image processing and software	1.8	\$600.00	\$1,080.00		0.7	0.5	0.3	0.3	0	0
				\$1,080.00	\$1,080.00	\$420.00	\$300.00	\$180.00	\$180.00	\$0.00	\$0.00
Ground geophysics	Line Kilometres / Enter total amount invoiced list personnel										
Magnetics	6 line km for TJ, 47 line km for King			\$18,344.78		75%	25%	0%	0%	0%	0%
Geophysical interpretation				\$18,344.78	\$18,344.78	\$13,758.59	\$4,586.20	\$0.00	\$0.00	\$0.00	\$0.00
Geochemical Surveying	Number of Samples	No.	Rate	Subtotal							
Soil	ME-MS41	72.0	\$31.74	\$2,285.34		72					
Soil	ME-MS41	9.0	\$35.38	\$318.42			9				
Rock	ME-MS41 & ME-MS61	15.0	\$46.03	\$690.42		4	3	0	2	2	4
Whole rock	XRD-RTV	5.0	\$256.85	\$1,284.24		1	1	1	1	1	1
Petrology	Thin section	9.0	\$269.94	\$2,429.50		1	1	2	3	1	1
				\$7,007.92	\$7,007.92	\$ 2,996.24	\$ 983.30	\$ 796.74	\$ 901.89	\$ 618.85	\$ 710.90
Transportation		No.	Rate	Subtotal							
Airfare		2.0	\$459.12	\$918.24		52%	28%	5%	5%	5%	5%
kilometers	personal rental car	3500.0	\$0.52	\$1,820.00		1,820.00	980.00	175.00	175.00	175.00	175.00
Helicopter (hours)		5.2	\$1,600.00	\$8,320.00		2.70	1.46	0.26	0.26	0.26	0.26
Fuel (litres/hour)		5.2	\$270.00	\$1,404.00		2.70	1.46	0.26	0.26	0.26	0.26
Helicopter (hours)		1.7	\$1,700.00	\$2,890.00		0.70	1.00				
Fuel (litres/hour)		1.7	\$342.00	\$581.40		0.70	1.00				
				\$15,933.64	\$15,933.64	\$ 7,909.76	\$ 5,531.43	\$ 623.11	\$ 623.11	\$ 623.11	\$ 623.11
Accommodation & Food	Rates per day										
Hotel	7 nights	7.0	\$133.96	\$937.74		52%	28%	5%	5%	5%	5%
Camp		12.0	\$50.00	\$600.00							
Meals		19.0	\$59.33	\$1,127.33							
				\$2,665.07	\$2,665.07	\$1,385.84	\$746.22	\$133.25	\$133.25	\$133.25	\$133.25
Equipment Rentals											
soil and rock sampling tools, safety		1.0	\$886.08	\$886.08		52%	28%	5%	5%	5%	5%
camp gear		1.0	\$526.57	\$526.57							
sat phone rental per week		1.0	\$90.00	\$90.00							
Drone rental per week		1.0	\$600.00	\$600.00							
Laptop per week		1.0	\$100.00	\$100.00							
GIS and imagery software, \$100 per day		7.0	\$100.00	\$700.00							
Walkie talkie rental, 2 pairs		2.0	\$40.00	\$80.00							
				\$2,982.65	\$2,982.65	\$1,550.98	\$835.14	\$149.13	\$149.13	\$149.13	\$149.13
Freight, rock samples											
Sample shipping		1.0	\$63.00	\$63.00		52%	28%	5%	5%	5%	5%
				\$63.00	\$63.00	\$32.76	\$17.64	\$3.15	\$3.15	\$3.15	\$3.15
TOTAL Expenditures	(does not include GST)				\$61,507.06	\$34,474.17	\$17,069.92	\$2,545.38	\$2,650.54	\$2,337.50	\$2,429.55

Exploration Work type	Comment	Days			Totals
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*	
Tao Song	June 18, 2019	0.5	\$600.00	\$300.00	
Helper, Dave Li	June 18, 2019	0.5	\$300.00	\$150.00	
Jade appraiser, Ian Chen		0.0	\$300.00	\$0.00	
Yanice Yuan, senior jade miner		0.0	\$400.00	\$0.00	
				\$450.00	\$450.00
Office Studies	List Personnel (note - Office only, do not include field days)				
Literature search	Tao Song	0.0	\$600.00	\$0.00	
Report preparation	Tao Song	0.4	\$600.00	\$240.00	
Other (specify)	GIS	0.2	\$600.00	\$120.00	
				\$360.00	\$360.00
Remote Sensing	Area in Hectares / Enter total invoiced amount or list personnel				
Aerial photography	Image processing and software	0.0	\$600.00	\$0.00	
				\$0.00	\$0.00
Ground geophysics	Line Kilometres / Enter total amount invoiced list personnel				
Magnetics					
Geophysical interpretation					
				\$0.00	\$0.00
Geochemical Surveying	Number of Samples	No.	Rate	Subtotal	
Soil					
Soil					
Rock	ME-MS41	2.0	\$46.03	\$92.06	
Whole rock	XRD-RTV	1.0	\$256.85	\$256.85	
Petrology	Thin section	1.0	\$269.94	\$269.94	
				\$618.85	\$618.85
Transportation		No.	Rate	Subtotal	
Airfare		0.1	\$459.12	\$45.91	
kilometers	personal rental car	175.0	\$0.52	\$91.00	
Helicopter (hours)		0.26	\$1,600.00	\$416.00	
Fuel (litres/hour)		0.26	\$270.00	\$70.20	
Helicopter (hours)					
Fuel (litres/hour)					
				\$623.11	\$623.11
Accommodation & Food	Rates per day				
Hotel	7 nights	0.35	\$133.96	\$46.89	
Camp		0.60	\$50.00	\$30.00	
Meals		0.95	\$59.33	\$56.37	
				\$133.25	\$133.25
Equipment Rentals					
soil and rock sampling tools, safety		0.05	\$886.08	\$44.30	
camp gear		0.05	\$526.57	\$26.33	
sat phone rental per week		0.05	\$90.00	\$4.50	
Drone rental per week		0.05	\$600.00	\$30.00	
Laptop per week		0.05	\$100.00	\$5.00	
GIS and imagery software, \$100 per day		0.35	\$100.00	\$35.00	
Walkie talkie rental, 2 pairs		0.10	\$40.00	\$4.00	
				\$149.13	\$149.13
Freight, rock samples					
Sample shipping		0.05	\$63.00	\$3.15	
				\$3.15	\$3.15
TOTAL Expenditures	(does not include GST)				\$2,337.50

Appendix C - Statement of Work Registration Event

https://www.mtonline.gov.bc.ca/mto/sowMinPostSummary.do?org.apache.struts.taglib.html.TOKEN=206744f8e4608634ffc226887410c529



Print and Close

Cancel

Mineral Titles Online

Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: 1108948 BC LTD. (283737) **Submitter:** 1108948 BC LTD. (283737)
Recorded: 2020/MAR/26 **Effective:** 2020/MAR/26
D/E Date: 2020/MAR/26

Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. **Please attach a copy of this confirmation page to your report.** Contact Mineral Titles Branch for more information.

Event Number: 5779610
Work Type: Technical Work
Technical Items: Geochemical, Geological, Prospecting
Work Start Date: 2019/JUN/18
Work Stop Date: 2019/JUN/18
Total Value of Work: \$ 2337.50
Mine Permit No:

Summary of the work value:

Title Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Applied Work Value	Sub-mission Fee
600662	PHILIPPON JADE	2009/MAR/08	2020/APR/05	2027/FEB/22	2514	16.98	\$ 2337.26	\$ 0.00

Financial Summary:

Total applied work value: \$ 2337.26
PAC name: Philippon Jade PAC
Debited PAC amount: \$ 0.0
Credited PAC amount: \$ 0.24
Total Submission Fees: \$ 0.0
Total Paid: \$ 0.0

Please print this page for your records.

The event was successfully saved.

Click [here](#) to return to the Main Menu.

Appendix D - Rock Sample Certificates



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VANCOUVER BC V6E 0A2

Page: 1
 Total# Pages: 2 (A - G)
 Plus Appendix Pages
 Finalized Date: 21-JUL-2019
 This copy reported on
 22-JUL-2019
 Account: AKGEXP

CERTIFICATE VA19163398

Project: Tsinghua Jade

This report is for 15 Rock samples submitted to our lab in Vancouver, BC, Canada on 3-JUL-2019.

The following have access to data associated with this certificate:

TAO SONG		
----------	--	--

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME-MS61	48 element four acid ICP-MS	
PGM-MS23	Pt, Pd, Au 30g FA ICP-MS	ICP-MS
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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Page: 2 - A
 Total # Pages: 2 (A - G)
 Plus Appendix Pages
 Finalized Date: 21-JUL-2019
 Account: AKGEXP

Project: Tsinghua Jade

CERTIFICATE OF ANALYSIS VA19163398

Sample Description	Method Analyte Units LOD	WEI-21	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
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1	0.05
TR01		0.64	<0.01	1.04	0.6	<0.02	50	<10	<0.05	0.01	0.02	0.01	0.10	140.0	2330	<0.05
TR02		0.68	<0.01	0.59	0.3	<0.02	40	<10	<0.05	<0.01	0.01	0.01	0.10	100.0	2360	<0.05
TR03		0.42	0.18	1.87	1.6	<0.02	<10	20	0.12	0.03	2.89	0.21	1.83	8.1	50	<0.05
PR02		0.58	<0.01	2.04	0.3	<0.02	<10	30	0.12	<0.01	1.59	0.20	3.43	24.9	74	<0.05
PR03		0.78	0.01	0.35	5.4	<0.02	40	10	<0.05	0.01	0.17	0.04	0.26	88.4	1440	<0.05
KR01		0.56	0.01	0.58	23.5	<0.02	80	10	<0.05	0.01	0.81	0.06	0.06	87.6	1750	0.44
KR05		0.44	0.02	0.53	4.9	<0.02	20	10	<0.05	0.01	1.29	0.04	0.42	82.9	1280	0.11
KR08		0.66	0.04	2.65	1.1	<0.02	<10	60	0.38	0.05	1.12	0.22	29.3	22.0	80	0.21
KR09		0.14	<0.01	0.14	3.5	<0.02	<10	20	0.28	0.47	0.57	0.06	0.23	16.0	189	0.21
BR01		0.46	0.01	0.26	3.8	<0.02	40	160	<0.05	<0.01	0.02	0.11	0.29	90.6	1480	<0.05
BR02		0.18	0.12	0.08	1.8	<0.02	20	10	0.21	0.04	0.15	0.05	0.10	86.6	1350	<0.05
KMR01		0.40	0.04	1.79	8.3	<0.02	<10	90	0.29	0.02	1.67	0.52	15.50	12.9	43	0.10
KMR02		0.60	0.01	0.05	0.1	<0.02	<10	110	<0.05	0.04	0.01	<0.01	3.36	0.3	10	<0.05
KMR03		0.30	<0.01	0.05	0.3	<0.02	<10	160	0.05	0.05	0.01	<0.01	4.17	0.3	8	<0.05
KMR04		0.44	0.01	2.34	0.8	<0.02	<10	130	0.52	0.04	1.10	0.07	77.0	8.6	2	1.59

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



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Page: 2 - B
 Total # Pages: 2 (A - G)
 Plus Appendix Pages
 Finalized Date: 21 JUL-2019
 Account: AKGEXP

Project: Tsinghua Jade

CERTIFICATE OF ANALYSIS VA19163398

Sample Description	Method Analyte Units LOD	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
		Cu ppm	Fe %	Ca ppm	Ce ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
		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	0.05
TR01		3.0	11.55	1.80	0.13	0.03	<0.01	0.009	<0.01	<0.2	0.4	16.40	871	0.38	<0.01	<0.05
TR02		5.0	5.95	0.87	0.11	0.04	<0.01	0.007	<0.01	<0.2	0.3	19.60	855	0.51	<0.01	<0.05
TR03		230	0.91	2.90	0.12	0.13	0.02	0.005	0.01	0.9	2.0	0.50	223	0.37	0.01	0.27
PR02		31.1	2.62	4.55	<0.05	0.17	<0.01	0.008	0.09	1.5	18.9	2.17	542	0.12	0.03	0.91
PR03		11.3	6.60	0.55	0.08	0.02	0.01	<0.005	<0.01	0.2	0.3	10.40	437	0.41	<0.01	<0.05
KR01		20.8	5.17	0.82	0.11	0.02	<0.01	0.008	<0.01	<0.2	2.3	16.75	781	0.05	<0.01	<0.05
KR05		10.0	3.81	1.21	0.08	0.03	<0.01	0.005	<0.01	0.3	21.9	12.65	992	0.05	<0.01	<0.05
KR08		40.0	5.40	11.90	0.15	0.20	<0.01	0.059	0.09	14.4	30.2	2.72	1220	1.65	0.02	0.56
KR09		1.1	0.39	0.52	<0.05	0.02	0.01	<0.005	0.05	<0.2	2.5	0.87	120	0.17	0.01	<0.05
BR01		2.3	4.98	0.92	0.18	0.02	<0.01	<0.005	<0.01	<0.2	0.6	14.15	484	0.07	0.01	<0.05
BR02		13.2	3.89	0.30	0.24	0.02	<0.01	<0.005	<0.01	<0.2	1.2	16.90	820	<0.05	0.01	<0.05
KMR01		22.9	3.33	7.09	0.11	0.17	<0.01	0.027	0.11	8.2	15.1	1.90	1310	0.33	0.01	0.65
KMR02		1.6	0.18	0.36	<0.05	<0.02	<0.01	<0.005	0.04	1.4	0.4	0.07	16	0.42	0.01	<0.05
KMR03		2.3	0.18	0.40	<0.05	0.02	<0.01	<0.005	0.05	1.7	0.4	0.05	14	0.44	0.01	<0.05
KMR04		4.4	5.82	13.75	0.18	0.26	<0.01	0.069	0.26	34.6	17.1	1.88	1240	2.34	0.03	2.60

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 Finalized Date: 21-JUL-2019
 Account: AKGEXP

Project: Tsinghua Jade

CERTIFICATE OF ANALYSIS VA19163398

Sample Description	Method Analyte Units LOD	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
		Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.2	0.01	0.005
TR01		2390	20	<0.2	0.1	0.001	0.01	0.07	13.2	0.3	<0.2	0.4	<0.01	0.01	<0.2
TR02		2500	10	<0.2	<0.1	<0.001	0.02	0.08	8.5	0.2	<0.2	0.2	<0.01	0.01	<0.2
TR03		78.4	370	1.2	0.2	<0.001	0.01	0.13	2.5	<0.2	<0.2	20.4	<0.01	0.18	<0.2
PR02		62.8	1180	0.2	1.7	<0.001	0.01	0.17	4.2	<0.2	0.2	67.2	<0.01	0.01	<0.2
PR03		1810	20	0.4	0.1	<0.001	0.01	2.84	4.3	0.2	<0.2	4.1	<0.01	0.02	<0.2
KR01		1860	<10	<0.2	0.4	<0.001	<0.01	1.63	11.7	<0.2	<0.2	2.5	<0.01	0.01	<0.2
KR05		1715	70	<0.2	0.2	<0.001	0.01	0.42	3.6	<0.2	<0.2	24.2	<0.01	0.03	<0.2
KR08		70.0	1280	4.9	1.8	<0.001	0.01	0.11	9.4	0.3	0.7	75.7	0.01	0.02	1.0
KR09		293	60	<0.2	1.6	0.001	0.01	0.09	0.3	<0.2	<0.2	2.5	<0.01	0.03	<0.2
BR01		2270	10	<0.2	<0.1	<0.001	0.10	1.00	5.2	0.3	<0.2	0.8	<0.01	0.02	<0.2
BR02		2480	20	0.2	<0.1	<0.001	0.07	0.46	3.2	0.3	<0.2	4.2	<0.01	0.02	<0.2
KMR01		45.2	580	1.1	2.5	<0.001	0.01	0.11	4.6	<0.2	0.5	152.5	0.01	<0.01	0.9
KMR02		6.6	20	1.4	1.5	<0.001	0.03	0.17	0.2	<0.2	<0.2	2.8	<0.01	0.02	0.4
KMR03		5.5	20	1.6	1.7	<0.001	0.02	0.17	0.3	<0.2	<0.2	2.6	<0.01	0.01	0.4
KMR04		3.6	3780	1.8	9.5	<0.001	0.01	0.23	4.4	<0.2	0.8	44.7	0.02	0.01	2.0

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 Total # Pages: 2 (A - G)
 Plus Appendix Pages
 Finalized Date: 21 JUL 2019
 Account: AKGEXP

Project: Tsinghua Jade

CERTIFICATE OF ANALYSIS VA19163398

Sample Description	Method Analyte Units LOD	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS41	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
		Ti ppm 0.02	U ppm 0.05	V ppm 1	W ppm 0.05	Y ppm 0.05	Zn ppm 2	Zr ppm 0.5	Ag ppm 0.01	Al % 0.01	As ppm 0.2	Ba ppm 10	Be ppm 0.05	Bi ppm 0.01	Ca % 0.01	Cd ppm 0.02
TR01		<0.02	<0.05	70	0.46	0.47	28	<0.5								
TR02		<0.02	<0.05	38	0.22	1.13	27	0.6								
TR03		<0.02	0.15	44	0.12	5.28	17	4.2								
PR02		<0.02	0.05	62	0.10	3.95	83	3.7								
PR03		<0.02	<0.05	26	0.82	0.38	15	<0.5								
KR01		<0.02	<0.05	41	0.07	1.11	15	<0.5	0.01	0.76	20.5	10	<0.05	<0.01	0.82	0.05
KR05		0.03	<0.05	25	0.08	1.32	22	<0.5	0.03	0.82	5.0	10	0.06	0.01	5.02	0.05
KR08		0.02	0.06	84	0.16	10.40	107	4.9	0.03	5.25	1.5	200	1.11	0.03	1.50	0.26
KR09		<0.02	0.14	3	0.06	0.18	12	<0.5	<0.01	0.52	3.4	110	0.69	0.49	8.85	0.10
BR01		<0.02	<0.05	29	0.08	0.50	14	<0.5								
BR02		<0.02	<0.05	9	0.08	0.07	13	<0.5								
KMR01		0.02	<0.05	47	0.12	6.48	101	4.7								
KMR02		0.02	0.11	1	<0.05	0.17	<2	0.7								
KMR03		0.02	0.11	1	<0.05	0.18	<2	0.7								
KMR04		0.09	0.15	15	0.21	16.25	134	8.4								

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 Total # Pages: 2 (A - G)
 Plus Appendix Pages
 Finalized Date: 21-JUL-2019
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Project: Tsinghua Jade

CERTIFICATE OF ANALYSIS VA19163398

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm
TR01 TR02 TR03 PR02 PR03		0.01	0.1	1	0.05	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	
KR01 KR05 KR08 KR09 BR01		0.06 0.50 51.1 0.34	121.0 99.1 23.4 82.5	2010 1590 88 1180	0.45 0.11 0.47 0.31	23.8 11.8 39.7 2.0	6.87 4.91 5.22 4.15	1.04 1.42 15.70 2.10	<0.05 <0.05 0.08 <0.05	<0.1 <0.1 1.6 <0.1	0.010 0.008 0.080 0.007	<0.01 <0.01 0.59 0.17	<0.5 <0.5 24.5 <0.5	2.2 18.4 28.1 8.9	20.5 18.00 2.64 12.60	995 1540 1200 892
BR02 KMR01 KMR02 KMR03 KMR04																

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 Finalized Date: 21-JUL-2019
 Account: AKGEXP

Project: Tsinghua Jade

CERTIFICATE OF ANALYSIS VA19163398

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm
TR01 TR02 TR03 PR02 PR03		0.05	0.01	0.1	0.2	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05
KR01 KR05 KR08 KR09 BR01		<0.05 <0.05 1.83 0.17	<0.01 0.01 1.84 0.08	<0.1 0.1 29.6 0.2	2250 1955 69.8 1580	10 70 1270 60	<0.5 <0.5 5.4 <0.5	0.4 0.2 8.9 3.8	<0.002 <0.002 <0.002 <0.002	<0.01 0.01 0.01 <0.01	4.45 1.03 0.28 0.35	13.2 9.5 14.8 4.1	<1 <1 1 1	<0.2 <0.2 1.7 <0.2	2.7 24.1 84.2 15.7	<0.05 <0.05 1.80 <0.05
BR02 KMR01 KMR02 KMR03 KMR04																

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Project: Tsinghua Jade

CERTIFICATE OF ANALYSIS VA19163398

Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	PGM-MS23	PGM-MS23	PGM-MS23
		Te ppm	Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm	Au ppm	Pt ppm	Pd ppm
TR01		0.05	0.01	0.005	0.02	0.1	1	0.1	0.1	2	0.5	0.001	0.0005	0.001
TR02														
TR03														
PR02														
PR03														
KR01		<0.05	<0.01	0.018	<0.02	<0.1	55	0.1	1.1	52	<0.5	0.003	0.0016	0.001
KR05		<0.05	0.03	0.025	0.03	<0.1	36	0.1	1.5	48	1.2	0.002	0.0057	0.004
KR08		<0.05	2.35	0.922	0.06	0.5	117	0.4	19.1	106	70.6	0.002	<0.0005	<0.001
KR09		<0.05	0.02	0.010	0.02	0.5	17	0.1	0.4	69	0.8	0.003	0.0025	0.001
BR01														
BR02														
KMR01														
KMR02														
KMR03														
KMR04														

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



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Page: **Appendix 1**
 Total # Appendix Pages: **1**
 Finalized Date: **21-JUL-2019**
 Account: **AKGEXP**

Project: Tsinghua Jade

CERTIFICATE OF ANALYSIS VA19163398

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												
Applies to Method:	REE's may not be totally soluble in this method. ME-MS61												
	LABORATORY ADDRESSES												
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.												
	<table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">CRU-31</td> <td style="width: 25%;">CRU-QC</td> <td style="width: 25%;">LOG-22</td> <td style="width: 25%;">ME-MS41</td> </tr> <tr> <td>ME-MS61</td> <td>PGM-MS23</td> <td>PUL-31</td> <td>PUL-QC</td> </tr> <tr> <td>SPL-21</td> <td>WEI-21</td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-22	ME-MS41	ME-MS61	PGM-MS23	PUL-31	PUL-QC	SPL-21	WEI-21		
CRU-31	CRU-QC	LOG-22	ME-MS41										
ME-MS61	PGM-MS23	PUL-31	PUL-QC										
SPL-21	WEI-21												

Appendix E - Petrographic Reports

Sample PT-01

Tremolite-rich Rock

Replacement: Epidote-Chlorite

Veinlets: Semi-Opaque, Tremolite(?)

The sample contains ragged unoriented prismatic grains of tremolite (with scattered patches of tremolite/actinolite) and scattered patches of leucoxene (possibly after ilmenite) in an extremely fine grained, semi-opaque groundmass that probably is in part tremolite. A few replacement patches are of epidote-chlorite; these occur in both the megacrysts and in the groundmass. A few veinlets are of semi-opaque material (as in the groundmass) and/or of extremely fine grained tremolite.

mineral	percentage	main grain size range (mm)	
tremolite	35-40%	0.3-1.2	
tremolite/actinolite	1- 2	0.05-0.15	
leucoxene(?)	2- 3	0.2-0.5	
groundmass	45-50	0.01-0.03	
replacement			
epidote	2- 3	0.02-0.05	(locally up to 0.15 mm)
chlorite	2- 3	0.02-0.03	
veinlets			
1) opaque/semi-opaque	0.7	0.01-0.05	
2) tremolite	0.3	0.01-0.02	

Tremolite forms ragged, unoriented prismatic grains and clusters of grains.

Leucoxene(?) forms disseminated semi-opaque to opaque patches up to 0.5 mm in size.

Tremolite/actinolite (pleochroism from pale to light greenish brown) forms patches in some tremolite grains, most commonly adjacent to patches of leucoxene.

The groundmass of uncertain composition (possibly in part tremolite) is extremely fine grained and generally semi-opaque.

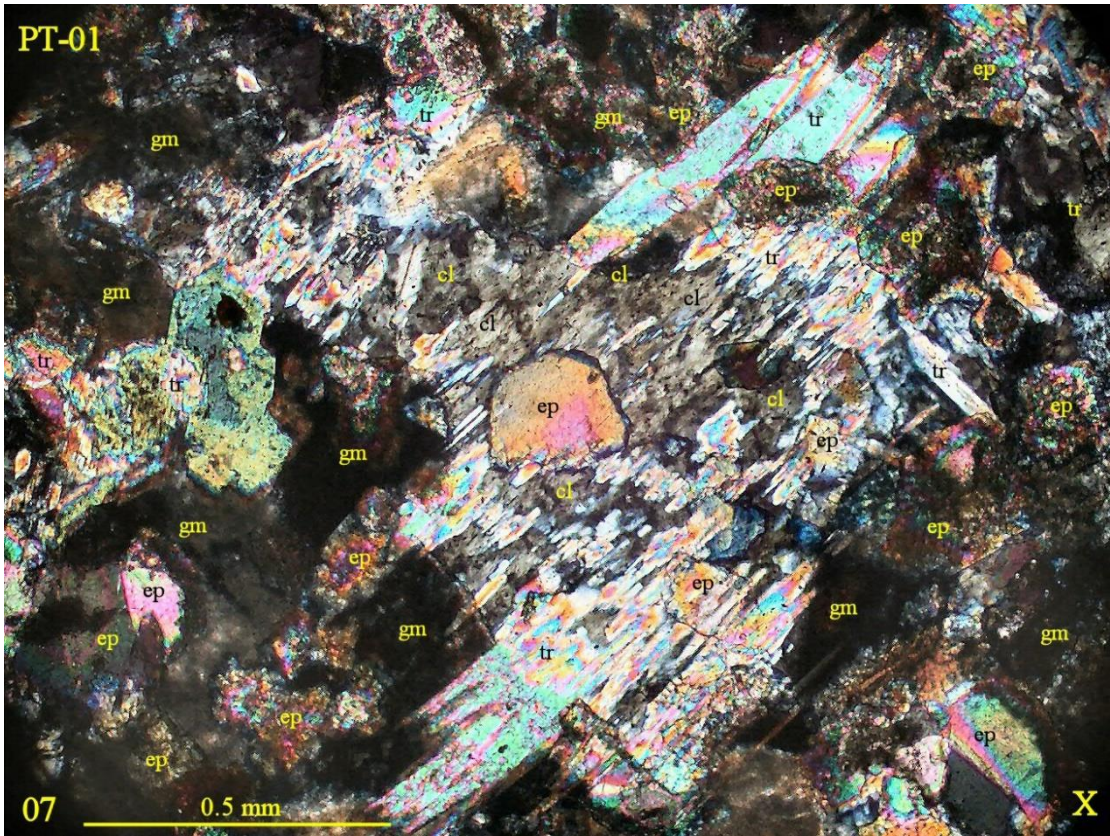
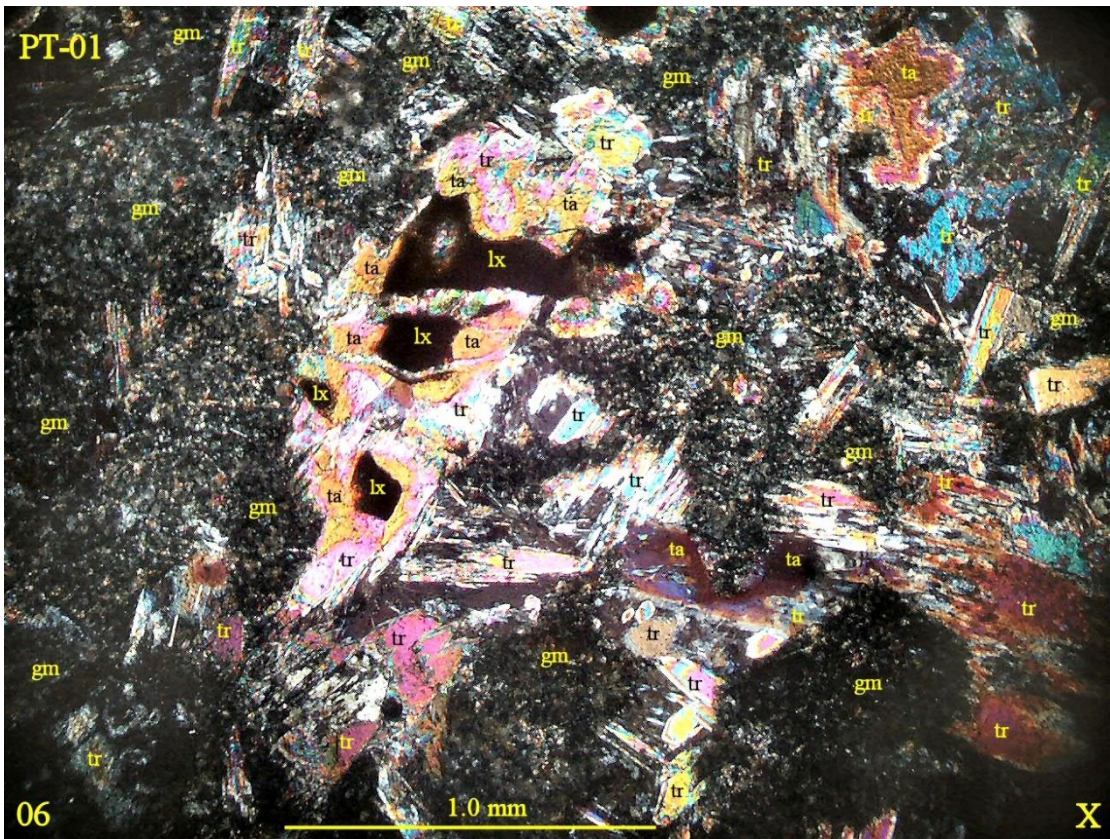
Epidote forms scattered replacement patches in tremolite grains. It is concentrated in a few patches where, along with patches of chlorite, it replaces both a large tremolite grain and the surrounding groundmass.

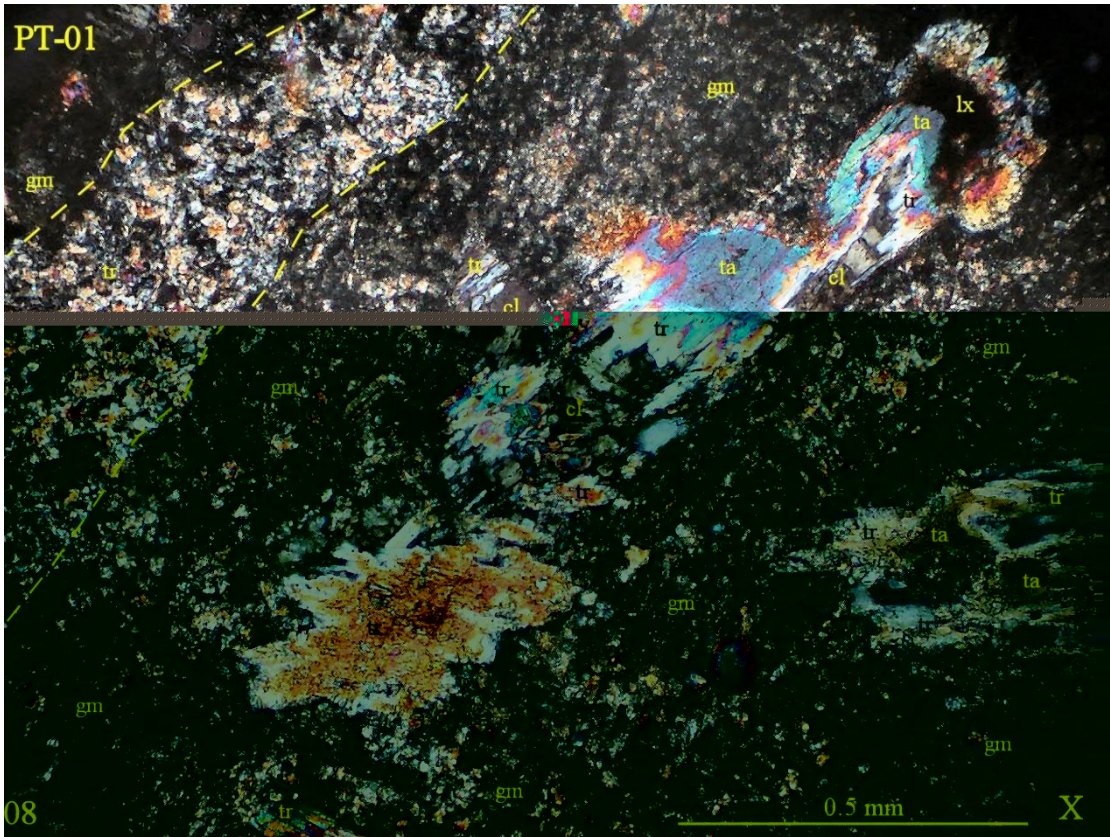
Chlorite also is concentrated in a few interstitial patches up to 0.5 mm in size of uncertain origin (primary versus replacement).

A few veinlike zones up to 0.3 mm wide cut the rock; they are composed of semi-opaque material (as in the groundmass) and/or extremely fine grained tremolite(?).

List of Photographs

Photo	Section	Description
06	PT-01	the largest prismatic tremolite grain contains patches of leucoxene surrounded by pale to light greenish brown tremolite/actinolite that is in optical continuity with the surrounding tremolite grain; top right: a smaller tremolite grain contains a patch of similar tremolite/actinolite; numerous smaller, commonly ragged prismatic tremolite grains; groundmass of extremely fine grained equant mineral(s) of uncertain composition (possibly also, in part at least, tremolite).
07	PT-01	ragged, prismatic tremolite grains replaced moderately by epidote-chlorite; semi-opaque groundmass also replaced partly by extremely fine grained epidote.
08	PT-01	ragged prismatic tremolite grains with a few patches of pale greenish brown tremolite/actinolite (one adjacent to a patch of leucoxene) in an extremely fine grained, semi-opaque groundmass (probably containing abundant tremolite); veinlet of extremely fine grained tremolite.





Appendix F - XRD Results

Mineral	Ideal Formula	#2 PT02
Calcite	CaCO ₃	
Clinochlore	(Mg,Fe ²⁺) ₅ Al(Si ₃ Al)O ₁₀ (OH) ₈	
Diopside	CaMgSi ₂ O ₆	
Dolomite	CaMg(CO ₃) ₂	3.0
Illite-Muscovite 2M1	K _{0.65} Al _{2.0} Al _{0.65} Si _{3.35} O ₁₀ (OH) ₂ KAl ₂ AlSi ₃ O ₁₀ (OH) ₂	–
Maghemite	Fe ₂ O ₃	
Magnetite	Fe ₃ O ₄	21.0
Plagioclase	NaAlSi ₃ O ₈ – CaAl ₂ Si ₂ O ₈	
Pumpellyite	Ca ₂ Fe ²⁺ (Al,Fe ³⁺) ₂ (Si ₂ O ₇)(SiO ₄)(OH) ₂ H ₂ O	
Pyrite	FeS ₂	
Quartz	SiO ₂	1.8
Serpentine Model	Mg ₃ Si ₂ O ₅ (OH) ₄	74.3
Stilpnomelane ?	K(Fe ²⁺ ,Mg,Fe ³⁺) ₈ (Si,Al) ₁₂ (O,OH) ₂₇	
Titanite	CaTiSiO ₅	
Tremolite-Actinolite	Ca ₂ Mg ₅ Si ₈ O ₂₂ (OH) ₂ - Ca ₂ (Mg,Fe ²⁺) ₅ Si ₈ O ₂₂ (OH) ₂	
Total		100.0

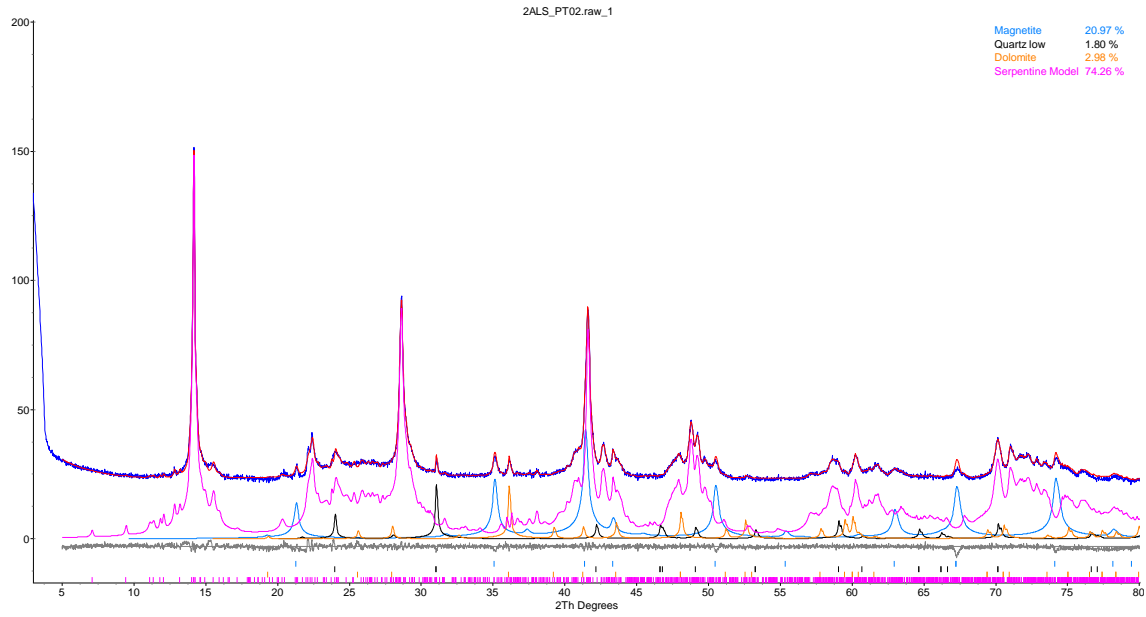


Figure 2. Rietveld refinement plot of sample **ALS Geochemistry #2: PT02** (blue line - observed intensity at each step; red line - calculated pattern; solid grey line below - difference between observed and calculated intensities; vertical bars - positions of all Bragg reflections). Coloured lines are individual diffraction patterns of all phases.