

**BC Geological Survey
Assessment Report
39138**



Ministry of Energy and Mines
BC Geological Survey

**Assessment Report
Title Page and Summary**

TYPE OF REPORT [type of survey(s)]: Geological

TOTAL COST: \$10,257.64

AUTHOR(S): Laurence Sookochoff, PEng

SIGNATURE(S): Laurence Sookochoff

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): _____ **YEAR OF WORK:** 2020

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5777556

PROPERTY NAME: Nahmint

CLAIM NAME(S) (on which the work was done): 1074721

COMMODITIES SOUGHT: Gold, Copper

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092C 007/008/009/231/233, 092F 061/086/128/156/157/232/621/622/623/624

MINING DIVISION: Alberni

NTS/BCGS: 092C.096, 092F.006

LATITUDE: 49 ° 00 ' 33 " **LONGITUDE:** 124 ° 53 ' 27 " (at centre of work)

OWNER(S):

1) Bill McKinney

2) _____

MAILING ADDRESS:

11751 Shell Road

Richmond BC V7A 3W7

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

1) John Bakus

2) _____

MAILING ADDRESS:

#3 1572 Lorne Street East

Kamloops, BC V7C 1X8

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Triassic, Jurassic, Vancouver Group, Quatsino Formation, Karmutsen Formation, Bonanza Group, Island Plutonic Suite, Marble, Limestone, Sedimentary Rocks, Volcanic Rocks, Basalt, Granodiorite

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 15199, 17714, 19484, 29252, 29660, 30799, 31708

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation	678 hectares	1074721	\$ 6000.00
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil	8		
Silt			
Rock	2		
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying	20 samples	1074721	2,128.82
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)	1:8000, 15 hectares	1074721	2,128.82
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:			\$ 10,257.64

Geological & Prospecting Report

(Event 5777556)

Bill McKinney

(Owner)

John Bakus

(Operator)

Work done on Tenures

1074721

of the 17 claim

Nahmint Property

Alberni Mining Division

BCGS Maps 092C.096, 092F.006

Centre of Work

5,430,198N, 361,734E

(Zone 10U NAD 83)

work done from

February 23, 2020 to March 8, 2020

Author & Consultant

Laurence Sookochoff, PEng

Sookochoff Consultants Inc.

Report Submitted

June 20, 2020

TABLE OF CONTENTS

	page
Summary -----	4.
Introduction -----	5.
Property Location and Description -----	5.
Accessibility, Climate, Local Resources, Infrastructure and Physiography -----	6.
History: Nahmint Property Area -----	8.
092C 007– MONITOR -----	8.
History: Nahmint Property -----	9.
092C 008– HAPPY JOHN -----	9.
092C 009– DEFIANCE -----	9.
092F 061– SILVER KING -----	9.
092F 086– BLACK PRINCE -----	10.
092F 129– SUNSHINE -----	10.
092F 156– SAUCY LASS -----	10.
092F 157– CASCADE -----	11.
092C 231– HAPPY JOHN 2 -----	11.
092F 232– HAPPY JOHN 4 -----	11.
092C 233– MARK MURRAY -----	12.
092F 621– WASP -----	12.
092F 622– GOLD VEIN -----	13.
092F 623– GOLD NUGGET -----	13.
092F 624– BELVIDERE -----	13.
Geology: Nahmint Property Area -----	13.
092C 007– MONITOR -----	14.
Geology: Nahmint Property -----	14.
092C 008– HAPPY JOHN -----	14.
092C 009– DEFIANCE -----	14.
092F 061– SILVER KING -----	14.
092F 086– BLACK PRINCE -----	15.
092C 095– UCHUCKESIT INLET -----	15.
092F 129– SUNSHINE -----	15.
092F 156– SAUCY LASS -----	17.
092F 157– CASCADE -----	17.
092C 231– HAPPY JOHN 2 -----	17.
092F 232– HAPPY JOHN 4 -----	17.
092C 233– MARK MURRAY -----	17.
092F - 411– HECATE MOUNTAIN -----	18.
092F 475 – HANDY CREEK -----	18.
092F 621– WASP -----	18.
092F 622– GOLD VEIN -----	18.
092F 623– GOLD NUGGET -----	18.
092F 624– BELVIDERE -----	19.
Mineralization: Nahmint Property Area -----	19.
092C 007– MONITOR -----	20.
Mineralization: Nahmint Property -----	20.
092C 008– HAPPY JOHN -----	20.

Table of Contents (cont'd)

092C 009– DEFIANCE -----	21.
092F 061– SILVER KING -----	21.
092F 086– BLACK PRINCE -----	21.
092C 095– UCHUCKESIT INLET -----	21.
092F 129– SUNSHINE -----	21.
092F 156– SAUCY LASS -----	22.
092F 157– CASCADE -----	22.
092C 231– HAPPY JOHN 2 -----	22.
092F 232– HAPPY JOHN 4 -----	22.
092C 233– MARK MURRAY -----	23.
092F - 411– HECATE MOUNTAIN -----	23.
092F 475 – HANDY CREEK -----	23.
092F 621– WASP -----	23.
092F 622– GOLD VEIN -----	23.
092F 623– GOLD NUGGET -----	23.
092F 624– BELVIDERE -----	24.
2019 Exploration Program: -----	24.
Interpretation, Conclusions, and Recommendations -----	29.
Selected References -----	32.
Statement of Costs -----	33.
Certificate -----	34.

TABLES

Table 1. Tenures of the Nahmint Property -----	6.
Table 2. Approximate Location of Cross-Structures -----	28.

ILLUSTRATIONS

Figure 1. Nahmint Property Location Map -----	5.
Figure 2. Nahmint Property Location from Port Alberni -----	6.
Figure 3. Port Alberni: City to Mountain View -----	7.
Figure 4. Nahmint Property Claims -----	8.
Figure 5. Nahmint Property Geology -----	16.
Figure 7. Sample Index Map -----	25.
Figure 8. Northeast Sample Locations -----	26.
Figure 9. Western Sample Locations -----	26.
Figure 10. Indicated Lineaments -----	27.
Figure 12. Rose Diagram -----	28.
Figure 12. Minfiles, XStructures ,and Anomalous Sediment Sample -----	29.
Figure 13. Mineral Zones in a Volcanic Environment -----	30.
Figure 14. Island Copper Mine: Port Hardy, Vancouver Island -----	30.

APPENDICES

Appendix 1 Sample Assays	
Appendix 2 Sample Locations and Descriptions	
Appendix 3 Photos	

SUMMARY

The 4,872-hectare Nahmint property, located 134 kilometres west of Vancouver and 28 kilometres north-northeast of Alberni on Vancouver Island, is comprised of 17 contiguous mineral claims. The Property includes 15 Minfile documented 13 mineral showings, one mineral prospect, and one developed prospect.

Historically, mineral exploration in the area of the Nahmint property dates back to the late 1890's with the discovery of mineralization at many locations along portions of the Alberni Inlet, Uchucklesit Inlet and Henderson Lake. Considerable exploration and development work were carried out on the property in the early 1900s including underground workings on twelve different occurrences. (Pezzot, 2012). The Monitor is one past producer, the confines of Nahmint property,

“For the six years that the Monitor mine was in production, a total of 1,288 tonnes was mined, producing 37,137 grams of silver, 62 grams of gold and 116,946 kilograms of copper (Minfile).

The Three Jays past producer, located in Crown Grants within the Nahmint property,

“The mine was in operation from about 1898 to 1902 and produced 148,889 kilograms of copper, 1,929 grams of gold and 75,207 grams of silver from a total of 1,981 tonnes mined (Mineral Policy data). The workings consist of surface pits, several short tunnels, one short shaft and 3 adits at 530, 470 and 380 metres elevation, driven for lengths of 300, 200 and 600 metres respectively (Minfile).

The structural analysis revealed two cross-structural locations where any waning magmatic body at depth could reveal its constituents at surface by migrating hydrothermal fluids via the structurally prepared brecciated conduit. Cross-structure B may have been such a conduit as indicated from elevated and/or anomalous copper, lead and zinc values within the sediments of a stream which drains the area of the cross-structure.

The number of widespread skarn showings on the Property is suggestive of a concealed magmatic source/intrusive of mineral-bearing hydrothermal fluids which created the skarns, and which, quite likely occur associated with some type of a structure which facilitated the migration of the fluids. The exploration for the source, which could be a concealed porphyry deposit, is the purpose of the exploration program.

No mention of porphyry copper mineralization has been documented on the Nahmint property to date, but neither have such deposits been targeted by explorationists. Sedimentary limestone deposits consist of the extensive exposures of the Quatsino limestone unit itself. (Houle, 2008).

As surficial indications of a deep-seated porphyry may be revealed at cross-structural locations in the geology, alteration, and pathfinder minerals, it is recommended that the area from the location of cross-structure B to the location of Sample 20NM-8 (*Figure 12*) be explored for geological and mineralogical porphyry indications or any deposit type other than a skarn deposit which are prevalent on the Nahmint property.

These surficial indications may provide the clues to a deep-seated porphyry which could have provided the mineralized hydrothermal fluids for their creation. As shown in *Figure 13* skarn, porphyry, epithermal, and massive sulphide deposits are all related in a volcanic environment.

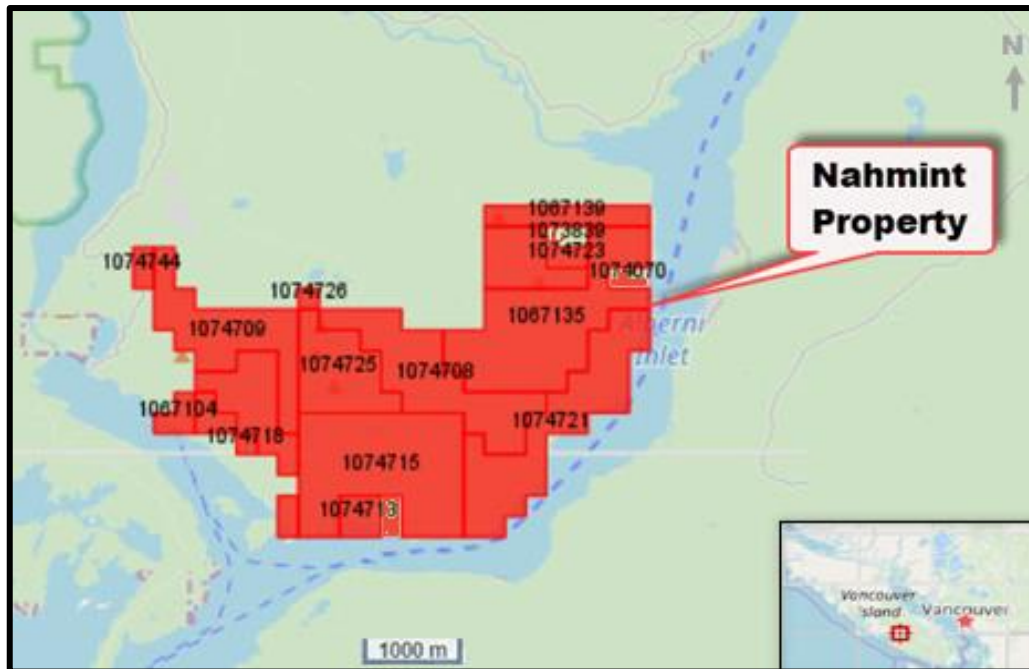
INTRODUCTION

From February 23, 2020 to March 8, 2020, a structural analysis in addition to a prospecting and sampling program were completed on the Nahmint Property ("Property") for the purpose of locating a cross-structure which may indicate surficial indicators of a potential concealed mineral resource.

The purpose of the prospecting and sampling program was to prospect and take samples within any prospective mineralized zone in order to gather geological information for future exploration.

Information for this report was obtained from sources as cited under Selected References and from information on the procedures and results on the prospecting and sampling program given the author.

*Figure 1. Nahmint Property Location and Claims
(Base Map from MapPlace)*



PROPERTY LOCATION & DESCRIPTION

Location

The Nahmint Property is located 134 kilometres west of Vancouver, 74 kilometres west of Nanaimo, and 28 kilometres south-southwest of Alberni within BCGS Maps 092F.006 and 092C.096 of the Alberni Mining Division.

Description

The Nahmint Property is comprised of 17 contiguous mineral claims covering an area of 4893.9078 hectares. Particulars are as follows:

ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

Access

Access to the Property from Richmond is to Tsawwassen Ferry Terminal, BC Ferries across Georgia Strait to Duke Point on Vancouver Island, thence Duke Point Hwy 19 north to Hwy 4, thence west and south for approximately 50 kilometres to Port Alberni which is at the head of Alberni Inlet, a 20 kilometre Inlet from the Pacific Ocean. From Alberni, access to northern boundary of the Property would be by boat, fixed wing float lane, or helicopter.

Figure 2. Nahmint Property Location from Port Alberni
(Base Map from MapPlace & Google)

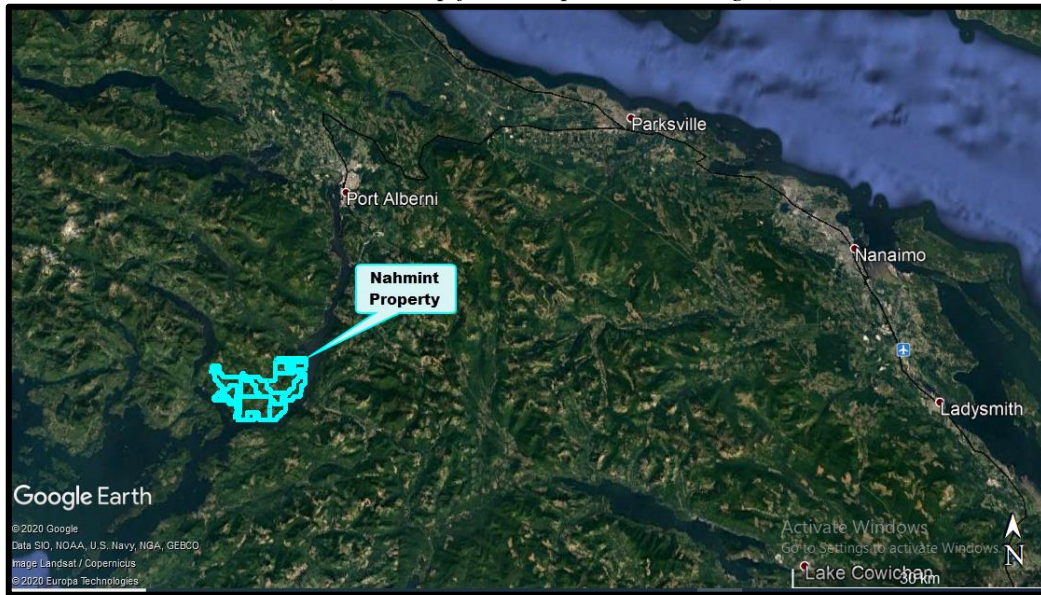


Table 1. Tenures of the Nahmint Property

Tenure number	Claim name	*Expire dat	Area in hectare
1067103	SILVER KING	10/12/2020	42.3959
1067104	NAHMINT CASCADES	10/12/2020	63.5691
1067135	NAHMINT WEST	10/12/2020	847.2142
1067139	NAHMINT NORTH	10/12/2020	169.377
1074707		10/12/2020	232.9312
1074708		10/12/2020	572.007
1074709		10/12/2020	487.1868
1074713	Nahmint Happy John	10/12/2020	84.792
1074715	Nahmint Struct 19 1059211	10/12/2020	890.1421
1074718	NAHMINT GOLD NUGGET	10/12/2020	21.1912
1074719	NAHMINT BLACK PRINCE WASP	10/12/2020	296.6309
1074720	Nahmint Cascade	10/12/2020	63.5665
1074721	NAHMINT SOUTH EAST	10/12/2020	678.0438
1074723	NAHMINT THREE JAYS	10/12/2020	42.3506
1074725	NAHMINT STR N 1059212	10/12/2020	360.1505
1074726	Nahmint Handy Creek	10/12/2020	21.179
1074744	Nahmint Ocean Wave	10/12/2020	21.18

*Upon the approval of the assessment work filing Event Number 5777556.

Climate

(from https://en.wikipedia.org/wiki/Port_Alberni)

Port Alberni's dry July gives it a warm-summer **Mediterranean climate**, although it is much wetter than most such places. Although the summer months do see a relatively small amount of precipitation, the vast majority of it comes during the winter months as cool, moist air flows from the Pacific Ocean over the much colder B.C. coast. Despite its location on the relatively dryer east side of Vancouver Island, the resulting weak rain shadow is not enough to keep the city dry.

*Accessibility, Climate, Local Resources, Infrastructure and Physiography (cont'd)***Local Resources**

Port Alberni is a resource community of about 17,000 people with abundant skilled labour, housing, services, hospital, airport and a deep sea port. Port Alberni Airport is located 11 km north west of the city (Houle, 2009).

The total population of Port Alberni and surrounding suburbs consisting of both Cherry and Beaver Creek districts is 26,569 (as of the 2004 census conducted by Statistics Canada).

Figure 3. Port Alberni: City to Mountain View

(Map from Cheryl Young's Blog – WorldPress.com)

**Infrastructure**

The local infrastructure is good with extensive logging roads over most of the Nahmint property, and the sheltered Alberni and Uchucklesit Inlets along two sides. Exploration programs can be mobilized and serviced by road, air or water as required to different portions of the property. Upgraded and expanded roads and the installation of deep sea wharfs could provide excellent access for potential future mining operations on the property.

The airport has a 4,000-foot runway with another 2,500 plus feet of taxiways and apron. The airport is home to a number of key tenants, including Coulson Airplane, Canadian Aero Technologies, Alberni Valley Flying Club and Vancouver Island Helicopters.

Physiography

Topographically, the property resembles a squat dome, and topography consists of terraced, flat-topped mountains incised by steep cliffs and valleys with fast-flowing, often seasonal creeks and rivers fed by small lakes. Elevations range across the Property from sea level to about 1000 metres. Overburden on the property consists of thin, poorly developed soils with local pockets of thicker glacial till, and rock exposure averages about 10%.

Vegetation is dense, second growth coniferous forest and fast-growing alders along variably overgrown logging roads, with occasional patches of old growth hemlock, balsam, fir and cedar. Abundant fresh water sources occur throughout the property, available through appropriate permits for exploration or mining purposes (Houle, 2009).

HISTORY: NAHMINT PROPERTY AREA

Work in the area of the Nahmint property dates back to the late 1890’s with the discovery of mineralization at many locations along the nearby portions of the Alberni Inlet, Uchucklesit Inlet and Henderson Lake. Considerable exploration and development work was carried out on the property in the early 1900s, particularly on the Three Jays area, including underground workings on twelve different occurrences. (Pezzot, 2012)

Minfile reports on the history of past producers adjacent to the Nahmint property are as follows.

MONITOR past producer (Skarn)

Minfile 092C 007

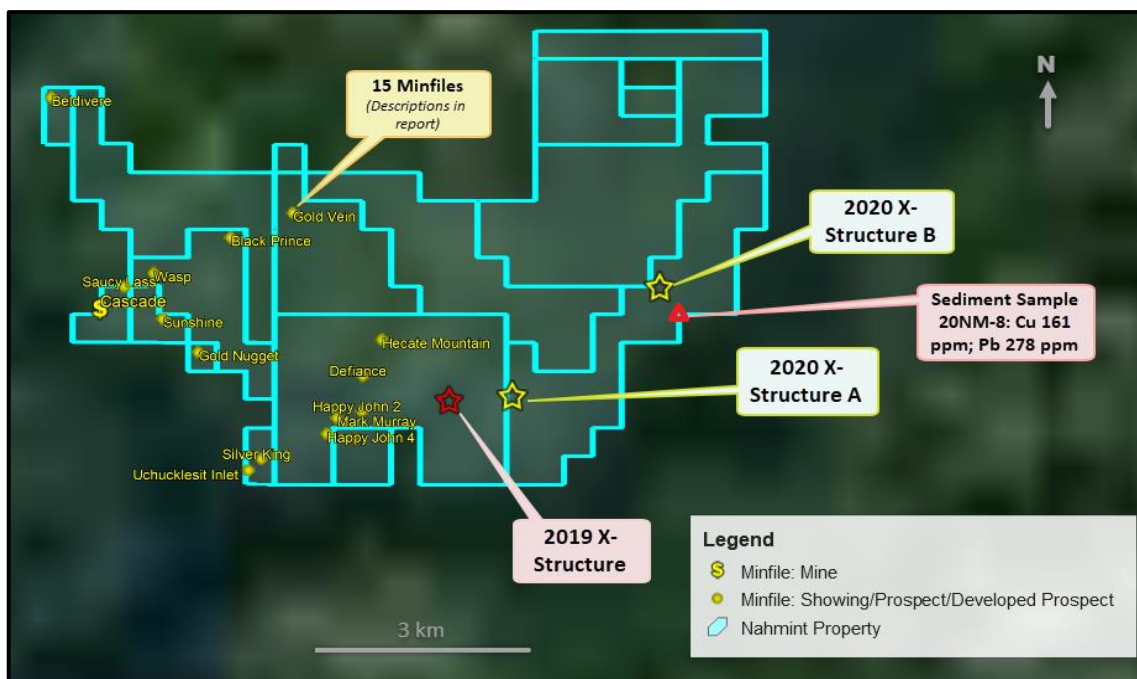
200 metres south

The Monitor mine is located on the north shore of the Alberni canal, just at the entrance. The mineralized zones extend back from the shore several hundreds of metres. The property was discovered in 1898 and during 1900 and 1901 steadily produced ore. The mine was reconditioned in 1916 and produced ore again from then until 1918.

In 1986 through 1989, Chelan Resources completed programs of geochemical sampling, geological mapping and ground geophysical surveys on the area as the Liquid Sunshine project.

In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, a part of the Nahmint property. In 2008, two grab samples, 362676 and 362677, of oxidized skarn from a former trench assayed 0.68 and 5.0 per cent copper, 3.7 and 0.13 per cent zinc with 12 and 23 grams per tonne silver, respectively (Assessment Report 29660).

Figure 4. Nahmint Property Claims, Sample Locations, and Minfiles
(Base Map from MapPlace & Google)



HISTORY: NAHMINT PROPERTY

The history on some of the mineral MINFILE reported showings and prospects within the Nahmint property is reported as follows. The descriptions herein are copied from Minfile.

HAPPY JOHN showing (Skarn, Hydrothermal)

Minfile 092C 008

Within Tenure 1074713

The Happy John 1 showing is located on the western side of Cass Creek, a few hundred metres north of the creek mouth. The Monitor mine (092C 007) adjoins the property. A number of old workings occur on the Happy John #1, #2 and #4 claims.

In 1986, Chelan Resources completed a program of geochemical sampling, geological mapping and ground geophysical surveys on the area as the Liquid Sunshine project. A 1.2 metre chip sample (LSC 21) of mineralized skarn material from the adit 1 portal assayed 10.8 grams per tonne gold. Other samples assayed up to 4.36 per cent copper (Assessment Report 15199).

In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, a part of the Nahmint property. In 2009, a select grab sample (200915) from a trench adjacent to the adit assayed 8.1 per cent copper and 35.1 grams per tonne silver (Assessment Report 31248). In 2010, a select grab sample (17305) from the fourth adit, located at 88 metres elevation, assayed 8.98 per cent copper, 0.126 per cent zinc and 19.5 grams per tonne silver (Assessment Report 31708).

DEFIANCE prospect (Skarn)

Minfile 092C 009

Within Tenure 1074715

The Defiance (L.498) occurrence is located on an east flowing tributary of Handy Creek, approximately 1.3 kilometres north- north west of the creek mouth.

The deposits were developed in the early 1900's by considerable stripping, and by open-cutting and by two tunnels 30 metres and 11 metres in length, respectively.

In 1986 through 1989, Chelan Resources completed programs of geochemical sampling, geological mapping, and ground geophysical surveys on the area as the Liquid Sunshine project.

In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey, and airborne geophysical surveys on the area as the TJM claims, a part of the Nahmint property.

SILVER KING showing

Minfile 092F 061

Within Tenure 1067103

The Silver King and Copper Queen showings are located on Limestone Bay, on the west side of Alberni Inlet, 45 kilometres southwest of Port Alberni. The Happy John (092C 008) showings and the Monitor mine (092C 007) occur respectively to the east.

In 1986 through 1989, Chelan Resources completed programs of geochemical sampling, geological mapping and ground geophysical surveys on the area as the Liquid Sunshine project. From six samples of the showing on the Silver King claim, the highest assay was 6.856 grams per tonne gold (Assessment Report 15199). A sample from a siliceous zone on the Copper Queen claim, 150 metres east of the Silver King, assayed 12.34 grams per tonne gold and 20.9 grams per tonne silver (Assessment Report 15199).

History: Nahmint Property (cont'd)**Silver King (cont'd)**

In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, apart of the Nahmint property. In 2010, two select outcrop grab samples, 8890 and 8891, from the former Silver King crown grant assayed 3.8 and 2.0 per cent zinc, 1.7 and 0.38 per cent copper with 23.8 grams per tonne and trace silver (Assessment Report 31708). A select grab sample (8885) from the former Copper Queen crown grant assayed 0.97 per cent zinc, 0.24 per cent copper (Assessment Report 31708).

BLACK PRINCE showing

Minfile 092F 086

Within Tenure 1074719

The Black Prince occurrences are located on the western slopes of Hecate Mountain, approximately 2.5 kilometres north- north east of the mouth of Cass Creek.

In 1988 and 1989, Barona Resources completed programs of soil and rock sampling, geological mapping, and ground geophysical surveys on the area as the Gold Nugget claim. Two chip samples (C4858 and C4865) assayed up to 19.7 grams per tonne silver and greater than 1 per cent copper (Assessment Report 17714).

In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey, and airborne geophysical surveys on the area as the TJM claims, a part of the Nahmint property. In 2009, a select outcrop grab sample (813568) from a 0.25-metre-thick mineralized skarn assayed 1.85 per cent copper, 7 grams per tonne silver and 48 per cent iron (Assessment Report 31248).

SUNSHINE developed prospect

Minfile 092F 129

Within Tenure 1074720

The Sunshine (L.336), Fern (L.332) and Fern No. 1 (L.334) occurrences are centered on a west flowing tributary of Cass Creek, approximately 1 kilometre north east of the creek mouth.

In 1988 and 1989, Barona Resources completed programs of soil and rock sampling, geological mapping and ground geophysical surveys on the area as the Gold Nugget claim. Two chip samples (C4886 and C4888) from the Fern (L.332) assayed up to 10.5 grams per tonne silver, 0.12 per cent copper; while one chip sample (D2759) from the Sunshine (L.336) assayed 13.5 grams per tonne silver and greater than 1 per cent copper (Assessment Report 17714).

In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, apart of the Nahmint property. In 2007, a select outcrop grab sample of weakly foliated copper skarn from a small, 2 by 1.5 metre, adit assayed 3.7 per cent copper and 8.7 grams per tonne silver (Assessment Report 29252). The same year, a select grab sample (362674) from a 1.0 metre thick skarn zone exposed in a creek bed yielded 5.24 per cent copper and 13.7 grams per tonne (Assessment Report 29574).

SAUCY LASS showing

Minfile 092F 156

Within Tenure 1067104

The Saucy Lass occurrences are located on Cass Creek, approximately 800 metres north of the creek mouth.

History: Nahmint Property (cont'd)**Saucy Lass (cont'd)**

Development work, done prior to 1920, consists of 3 adits; one is 18 metres long and the other two are 3 metres long each. A selected sample taken near the portal of a short adit assayed 14.5 per cent copper, 27.43 grams per tonne silver and a trace of gold (Minister of Mines Annual Report 1920).

In 1988 and 1989, Barona Resources completed programs of soil and rock sampling, geological mapping and ground geophysical surveys on the area as the Gold Nugget claim.

In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, apart of the Nahmint property. In 2009, a sample (200925) of mineralized skarn exposed in a creek canyon assayed 0.8 per cent copper and 6.1 grams per tonne silver (Assessment Report 31248).

CASCADE past producer (Cu Skarn)

Minfile 092F 157

Within Tenure 1067104

The deposit was mined in 1904 and 1905 produced 113 tonnes of ore, which contained 14,629 kilograms of copper and 3,235 grams of silver (Mineral Policy data). Most of the ore was taken from an open cut on the surface showing. A short tunnel was driven under the open cut but encountered little ore. One selected sample assayed 2.06 grams per tonne gold, 4.11 grams per tonne silver and 5.5 per cent copper (Minister of Mines Annual Report 1906).

In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, apart of the Nahmint property.

HAPPY JOHN 2 showing

Minfile 092C 231

Within Tenure 1074715

The Happy John 2 showing is located on the southern slopes of Hecate Mountain, approximately 700 metres north of the creek mouth of Handy Creek.

In 1986, Chelan Resources completed a program of geochemical sampling, geological mapping and ground geophysical surveys on the area as the Liquid Sunshine project. Samples (LSN 31 to LSN 33) from the vicinity of the shaft assayed 1.6 per cent copper, 4.1 grams per tonne silver and 0.56 gram per tonne gold (Assessment Report 15199). Previously reported samples assayed up to 7.2 per cent copper and 20.6 grams per tonne silver (Assessment Report 15199).

In 1989, Chelan Resources and Nitro Resources completed a program of prospecting.

In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, part of the Nahmint property.

HAPPY JOHN 4 showing (Skarn)

Minfile 092F 232

Within Tenure 1074715

The Happy John 4 showing is located on the southern slopes of Hecate Mountain, approximately 1 kilometre north west of the creek mouth of Handy Creek.

History: Nahmint Property (cont'd)**Happy John 4 (cont'd)**

In 1986, Chelan Resources completed a program of geochemical sampling, geological mapping, and ground geophysical surveys on the area as the Liquid Sunshine project.

Samples from the adit and trench assayed up to 5.46 per cent copper and 57.8 grams per tonne silver; while samples from the siliceous volcanic assayed up to 0.66 per cent copper, 13.5 grams per tonne silver and 9.9 grams per tonne gold (Assessment Report 15199).

In 1989, Chelan Resources and Nitro Resources completed a program of prospecting and geochemical sampling of 4 bulk samples. A 7.8-kilogram bulk sample (#201), taken from above the portal and containing partially banded pyrrhotite-marcasite-garnet skarn, assayed 0.12 gram per tonne gold, 6.5 grams per tonne silver and 0.09 per cent copper. The three other bulk samples collected assayed up to 0.265 per cent copper with lower results in gold and silver (Assessment Report 19484).

In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, part of the Nahmint property. In 2010, a select grab sample (17238) yielded 8.2 per cent copper and 71.8 grams per tonne silver from a trench near the adit (Assessment Report 31708).

MARK MURRAY showing (Skarn)

Minfile 092C 233

Within Tenure 1074715

The Mark Murray (former Green Mountain (L.96) crown grant) occurrence is located on the Sing Main Road, west of Handy Creek at an elevation of approximately 400 metres.

In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, part of the Nahmint property.

WASP showing (Skarn)**Minfile 092F 621**

Within Tenure 1074719

The Wasp (L.333) occurrence is located on a tributary of Cass Creek, approximately 1 kilometre northwest of the creek mouth.

In 1988 and 1989, Barona Resources completed programs of soil and rock sampling, geological mapping and ground geophysical surveys on the area as the Gold Nugget claim. Chip samples C4898 and C4900 assayed 66.8 and 65.2 grams per tonne silver, respectively, with greater than 1 per cent copper (Assessment Report 17714).

In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, part of the Nahmint property.

In 1988 and 1989, Barona Resources completed programs of soil and rock sampling, geological mapping and ground geophysical surveys on the area as the Gold Nugget claim. Chip samples C4898 and C4900 assayed 66.8 and 65.2 grams per tonne silver, respectively, with greater than 1 per cent copper (Assessment Report 17714).

In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey, and airborne geophysical surveys on the area as the TJM claims, part of the Nahmint property.

History: Nahmint Property (cont'd)**GOLD VEIN** showing (Skarn)

Minfile 092F 622

Within Tenure 1074725

The Gold Vein occurrence is located on the northern slopes of Hecate Mountain, at approximately 760 metres elevation.

In 1988 and 1989, Barona Resources completed programs of soil and rock sampling, geological mapping, and ground geophysical surveys on the area as the Gold Nugget claim. Two chip samples (D2754 and D2755) assayed 94.5 and 17.9 grams per tonne silver, greater than 1 per cent zinc and 0.26 per cent zinc with greater than 1 per cent copper, respectively (Assessment Report 17714).

In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, part of the Nahmint property.

GOLD NUGGET showing (Skarn)

Minfile 092F 623

Within Tenure 1074718

The Gold Nugget occurrence is located on the south western slopes of Hecate Mountain, overlooking the Uchucklesit Inlet, at approximately 260 metres elevation.

In 1988 and 1989, Barona Resources completed programs of soil and rock sampling, geological mapping and ground geophysical surveys on the area as the Gold Nugget claim. Two chip samples (D2757 and D2758) assayed 79.53 and 78.46 grams per tonne silver, respectively, with greater than 1 per cent copper. Another chip sample (D2789) taken 400 metres to the east and up slope assayed 63.1 grams per tonne silver and greater than 1 per cent copper (Assessment Report 17714).

In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, part of the Nahmint property.

BELVIDERE showing (Skarn)

Minfile 092F 624

Within Tenure 1074744

The Belvidere (L.301) and Tortilla (L.536) occurrences are located approximately 2 kilometres north of the mouth of a creek flowing into Snug Basin.

The area was originally explored in 1899 and 1916. An old adit occurs on the Tortilla (L536) crown grant from this time. In 1965, Alberni Mines completed a program of geological mapping, geochemical sampling and a ground magnetometer survey. In 1967, Mt. Agnes Mines completed a ground magnetometer survey on the area. In 1969 and 1970, Nootka Explorations completed a program of rock and soil sampling, geological mapping and a ground magnetometer survey on the area as the Henderson property.

In 2007 through 2012, Nahminto Resources completed a program of prospecting, geological mapping, geochemical sampling, a ground magnetometer survey and airborne geophysical surveys on the area as the TJM claims, part of the Nahmint property.

GEOLOGY: NAHMINT PROPERTY AREA

Minfile reports on the geology of a past producer adjacent to the Nahmint property area as follows.

Geology: Nahmint Property Area (cont'd)**MONITOR** past producer (Skarn)

Minfile 092C 007

200 metres south

This skarn deposit occurs in a bed of limestone, probably related to the Upper Triassic Quatsino Formation (Vancouver Group), interbedded with mafic basalts of the Upper Triassic Karmutsen Formation (Vancouver Group). The bedding strikes 115 degrees and dips 20 degrees to the southwest. These rocks are bounded on the east by a large body of granodiorite of the Early to Middle Jurassic Island Plutonic Suite (formerly the Island Intrusions). The rocks are intruded by a body of granodiorite porphyry, probably a dyke, lying west of the deposits and striking in a northerly direction.

GEOLOGY: NAHMINT PROPERTY

The geology of the Nahmint property is of a flat-lying sequence of layered rocks consisting of Karmutsen volcanics, Quatsino limestone, Parson Bay volcanics and sediments, and LeMare Lake volcanics. These layered rocks have been intruded from the southeast and domed from beneath by a large batholith or sill of Island Intrusive granodiorite and porphyritic stocks and dikes, in part along the Karmutsen-Quatsino contact. Steeply-dipping, northwest-trending faults have deformed and offset the layered and intrusive rocks both vertically and horizontally (Houle, 2008).

Descriptions of the geology on reported showings and past producers within the Nahmint Property are reported as follows. The descriptions herein are copied from Minfile.

HAPPY JOHN showing (Skarn, Hydrothermal)

Minfile 092C 008

Within Tenure 1074713

The area is underlain by rocks of the Upper Triassic Vancouver Group, comprising Karmutsen Formation volcanics and Quatsino Formation sediments, and Lower Jurassic Bonanza Group volcanics. At the showings, these sheared and fractured rocks comprise limestone, argillite, andesite, and a hornblende granodiorite plug.

DEFIANCE prospect (Skarn)

Minfile 092C 009

Within Tenure 1074715

The area is underlain by Upper Triassic Vancouver Group rocks consisting of basalts of the Karmutsen Formation, which are in intrusive contact, or interbedded with limestone of the Quatsino Formation.

A large body of granodiorite of the Early to Middle Jurassic Island Plutonic Suite (formerly the Island Intrusions) has intruded the strata within a few kilometres to the east.

Lenses of magnetite, intimately mixed with garnet, siderite and calcite, occur in a number of isolated pockets and lenses, strung out in northeast direction on a relatively flat bench. Two of the occurrences are cut by a small creek, while the third covers a flat about 5 metres square. The deposits are variably reported to occur at the contact of limestone and either Vancouver Group igneous rock (Karmutsen?) or hornblende diorite (Island Plutonic Suite?).

SILVER KING showing

Minfile 092F 061

Within Tenure 1067103

Geology: Nahmint Property (cont'd)**Silver King (cont'd)**

The area is underlain by rocks of the Upper Triassic Vancouver Group, comprising Karmutsen Formation volcanics and Quatsino Formation sediments, and Lower Jurassic Bonanza Group volcanics. These consist of sheared and fractured limestone, argillite, dacite and andesite.

There are several mineral occurrences in the area; these occur in skarns, in areas of shearing and in areas of silicification. The geology and mineralization is very similar to that of the Monitor mine and may actually be the extension of the Monitor zones.

The Silver King occurrence consists of a skarn body, striking 040 degrees and dipping 50 degrees. Mineralization consists of magnetite, chalcopyrite, pyrite, bornite and sphalerite.

The Copper Queen occurrence, located approximately 300 metres to the east-south east, consists of a 0.25 metre thick skarn zone, striking 170 degrees and dipping vertically. The zone is hosted by a altered limestone containing calcite stringers and mineralized with pyrite, chalcopyrite, sphalerite and magnetite.

BLACK PRINCE showing (Skarn)

Minfile 092F 086

Within Tenure 1074719

Volcanics of the Lower Jurassic Bonanza Group overlie Upper Triassic Vancouver Group rocks consisting of Karmutsen Formation volcanics and Quatsino Formation limestone. The strata may be intruded locally by diorite and granodiorite of the Early to Middle Jurassic Island Plutonic Suite. The limestone of this skarn deposit may be from the Quatsino Formation or from beds found in the upper part of the Karmutsen Formation.

Locally, six separate masses of pure and rocky magnetite occur along a northeast trend for about 60 metres. The largest of these masses has an exposure of about 23 square metres. They are irregular in shape and occur in association with a fine grained, cherty, porphyritic andesite or tuff, near its contact with intrusive hornblende diorite. Limestone is reported to occur within a few hundred metres.

UCHUCKLESIT INLET showing

Minfile 09C 095

Within Tenure 1067103

The Uchucklesit Inlet limestone showing extends northwest for 1.7 kilometres along the northeast shore of the inlet and onto Limestone Island near the entrance to Alberni Inlet.

The limestone, of the Upper Triassic Quatsino Formation (Vancouver Group), is in contact with Lower Jurassic Bonanza Group volcanics to the northeast.

The 200 metre wide limestone block is fault-bounded, tightly folded and intruded by dykes. Bedding strikes 050 to 090 degrees and dips 25 to 45 degrees southeast.

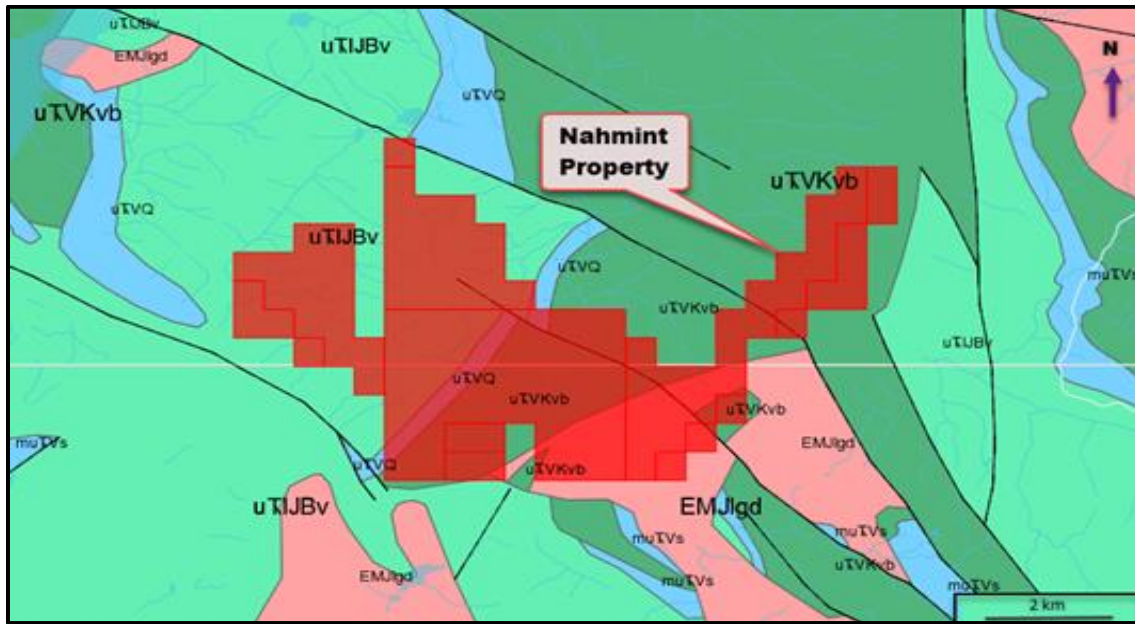
SUNSHINE developed prospect

Minfile 092F 129

Within Tenure 1074720

The area is underlain by Upper Triassic Vancouver Group, Quatsino Formation limestone in contact with andesite of the Lower Jurassic Bonanza Group. The strata is intruded by diorite of the Early to Middle Jurassic Island Plutonic Suite. The intrusive has altered the limestone to masses of garnet and epidote, while the andesite is intensely fractured and metamorphosed containing bunches and stringers of garnet, epidote and tremolite.

Figure 5. Nahmint Property Geology
(Base map from MapPlace)



GEOLOGY LEGEND

Middle to Upper Triassic

uTrVQ

Vancouver Group-Quatsino Formation
limestone, marble, calcareous sedimentary
rocks

Middle to Upper Triassic

muTrVs

Vancouver Group-
undivided sedimentary rocks

Upper Triassic

uTrVKvb

Vancouver Group-Karmutsen Formation
basaltic volcanic rocks

Upper Triassic to Lower Jurassic

uTrIJBv

Bonanza Group
undivided volcanic rocks

Early Jurassic to Middle Jurassic

EMJgd

Island Plutonic Suite
granodioritic intrusive rocks

Geology: Nahmint Property (cont'd)**SAUCY LASS** showing

Minfile 092F 156

Within Tenure 1067104

The area is underlain by the contact of Upper Triassic Vancouver Group, Quatsino Formation limestone and volcanics of the Lower Jurassic Bonanza Group. Intrusions of black igneous rocks are found in the immediate vicinity of the skarn deposits. These black rocks have a gneissic structure and are considerably sheared locally.

CASCADE past producer (Cu Skarn)

Minfile 092F 157

Within Tenure 1067104

The area is underlain by the contact of Upper Triassic Vancouver Group, Quatsino Formation limestone and volcanics of the Lower Jurassic Bonanza Group.

Locally, a diabase dyke (andesite) intrudes limestone and is impregnated with chalcopyrite and iron pyrite (pyrrhotite?). The deposit is also reported to be associated with skarn material made up of garnetite, epidote, hornblende and quartz and is described as a vein.

HAPPY JOHN 2 showing

Minfile 092C 231

Within Tenure 1074715

The area is underlain by rocks of the Upper Triassic Vancouver Group, comprising Karmutsen Formation volcanics and Quatsino Formation sediments, and by Lower Jurassic Bonanza Group volcanics. At the showings, these sheared and fractured rocks comprise limestone, argillite, andesite and a hornblende-granodiorite plug.

There are several mineral occurrences in the area; these occur in skarns, in areas of shearing and in areas of silicification. The geology and mineralization is very similar to that of the Monitor mine and may actually be the extension of the Monitor zones. One zone on this property, if extended along strike, would intersect near the Hedley orebody and, if projected to the shore of the canal, would terminate near the portal of the main adit on the Leonard orebody.

On the Happy John #2 claim a gossan or iron capping can be traced in a south east direction for 122 metres. Mineralization at the workings, a 12 metre adit and an 8 metre shaft, consists of chalcopyrite, magnetite, pyrrhotite and pyrite in garnetite gangue. The mineralization occurs at the limestone-volcanic contact.

HAPPY JOHN 4 showing (Skarn)

Minfile 092F 232

Within Tenure 1074715

The area is underlain by rocks of the Upper Triassic Vancouver Group, comprising Karmutsen Formation volcanics and Quatsino Formation sediments, and by Lower Jurassic Bonanza Group volcanics. At the showings, these sheared and fractured rocks comprise limestone, argillite, andesite and a hornblende- granodiorite plug.

MARK MURRAY showing (Skarn)

Minfile 092C 233

Within Tenure 1074715

The area is underlain by Upper Triassic Quatsino Formation (Vancouver Group) limestone in contact with andesite of the Lower Jurassic Bonanza Group. The strata is intruded by diorite of the Early to Middle Jurassic Island Plutonic Suite.

Geology: Nahmint Property (cont'd)**Mark Murray (cont'd)**

The intrusive has altered the limestone to masses of garnet and epidote, while the andesite is intensely fractured and metamorphosed, containing bunches and stringers of garnet, epidote and tremolite.

Locally, a weakly foliated iron-copper skarn, oriented at 60 degrees strike and 30 degrees dip to the south east, is exposed over 2 by 2 metres and is least 20 centimetres thick. This is located 1 to 2 metres west of a diorite intrusive contact, striking 150 degrees and dipping vertically.

HECATE MOUNTAIN showing

Minfile 092F 411

Within Tenure 1074715

At the Hecate Mountain occurrence, a 250 metre wide band of limestone of the Upper Triassic Vancouver Group, Quatsino Formation extends for 5 kilometres southwest from Handy Creek across the southeast flank of Hecate Mountain to Alberni Inlet, 27 kilometres south-southwest of Port Alberni. Bedding near the southwest end of the band strikes 012 degrees and dips 40 degrees west.

Near its centre, the band is segmented by a crossfault. The northeast end of the band is also truncated by a fault. The unit is underlain by andesites and basalts of the Upper Triassic Vancouver Group, Karmutsen Formation and overlain by volcanics and sediments of the Lower Jurassic Bonanza Group.

HANDY CREEK showing (Skarn)

Minfile 092F 475

Within Tenure 1067133

A west dipping limestone lens of the Upper Triassic Vancouver Group, Quatsino Formation trends north for 3 kilometres to the headwaters of Handy Creek, 23 kilometres south-southwest of Port Alberni.

The Handy Creek lens is terminated by a fault to the south and pinches out to the north between overlying Lower Jurassic Bonanza Group volcanics and sediments and underlying basalts and andesites of the Upper Triassic Karmutsen Formation, Vancouver Group. Exposed widths vary up to 1500 metres.

WASP showing (Skarn)

Minfile 092F 621

Within Tenure 1074719

The area is underlain by Upper Triassic Quatsino Formation (Vancouver Group) limestone in contact with andesite of the Lower Jurassic Bonanza Group. The strata is intruded by diorite of the Early to Middle Jurassic Island Plutonic Suite. The intrusive has altered the limestone to masses of garnet and epidote, while the andesite is intensely fractured and metamorphosed, containing bunches and stringers of garnet, epidote and tremolite.

GOLD VEIN showing (Skarn)

Minfile 092F 622

Within Tenure 1074725

The area is underlain by Upper Triassic Quatsino Formation (Vancouver Group) limestone in contact with andesite of the Lower Jurassic Bonanza Group. The strata is intruded by diorite of the Early to Middle Jurassic Island Plutonic Suite. The intrusive has altered the limestone to masses of garnet and epidote, while the andesite is intensely fractured and metamorphosed, containing bunches and stringers of garnet, epidote and tremolite.

GOLD NUGGET showing (Skarn)

Minfile 092F 623

Within Tenure 1074718

Geology: Nahmint Property (cont'd)**Gold Nugget (cont'd)**

The area is underlain by Upper Triassic Quatsino Formation (Vancouver Group) limestone in contact with andesite of the Lower Jurassic Bonanza Group. The strata is intruded by diorite of the Early to Middle Jurassic Island Plutonic Suite. The intrusive has altered the limestone to masses of garnet and epidote, while the andesite is intensely fractured and metamorphosed containing bunches and stringers of garnet, epidote and tremolite.

Locally, siliceous and epidote altered limestone and volcanics host pyrite and copper (chalcopyrite?) mineralization.

BELVIDERE showing (Skarn)

Minfile 092F 624

Within Tenure 1074744

The area is underlain by a narrow north trending band of Upper Triassic Quatsino Formation (Vancouver Group) limestone. The band is in contact on the west with Karmutsen volcanics (Vancouver Group), and on the east with Lower Jurassic volcanics (Bonanza Group). The strata is intruded by diorite and granodiorite of the Early to Middle Jurassic Island Plutonic Suite.

At the Belvidere (L.301) occurrence a 0.05 metre thick, rusty and vuggy copper skarn vein, oriented at 305 degrees strike and dipping 70 degrees northwest, is exposed over 10 metres length. The skarn is hosted by a felsic intrusive and contains chalcopyrite and pyrite with garnet. In 2007, a select outcrop grab sample (362657) assayed 1.52 per cent copper and 5 grams per tonne silver (Assessment Report 29574).

At the Tortilla (L.536) occurrence, located approximately 200 metres north, a 1.5 metre thick, foliated, fractured and vuggy iron-copper skarn zone, oriented at 155 degrees strike and 60 degrees dip to the south west, is exposed over a 15 to 25 metre strike length. The skarn zone is hosted by a mafic intrusive and contains magnetite with sulphide fractures and in-fillings including pyrite, chalcopyrite with garnet and epidote. In 2007, a select outcrop grab sample (362658) assayed 3.42 per cent copper and 3.5 grams per tonne silver (Assessment Report 29574).

MINERALIZATION: NAHMINT PROPERTY AREA

Descriptions of copper-gold-silver mineralization in the Nahmint property area are based primarily on historical data compiled in the B.C. Minister of Mines reports from 1898 to 1918, when all sixteen documented skarn occurrences were discovered by prospecting, many were explored by shallow excavations and a few selectively mined. Only six assessment reports exist of work by explorationists from 1965 to 1989.

Since most of the work was done long ago on crown granted mineral claims which did not require assessment work, details of the deposits and excavations are largely unknown. In the modern context of mineral deposits models, descriptions of the sulphide mineralogy of these skarn occurrences appear to represent mixed variations of three end-member types as follows:

- Copper Skarns – mainly chalcopyrite with minor pyrrhotite, pyrite, magnetite, bornite (Monitor, Happy John, Southern Cross, Torse, Sunshine, Three Jays, Ocean Wave, Saucy Lass, Cascade, Ivanhoe, Orphan Boy, Rainy Day)
- Gold Skarns – mainly pyrrhotite with minor bornite, chalcopyrite, pyrite, magnetite (Silver King)
- Iron Skarns – mainly magnetite with minor chalcopyrite, pyrrhotite, pyrite, bornite (Defiance, Black Prince, J & S).

Mineralization: Nahmint Property Area (cont'd)

These may actually represent mineral zonation variations within individual deposits or deposit clusters, which is also typical of skarns. Early workers appeared to target primarily visible and high-grade copper skarns as direct shipping ore, so pyrrhotite-rich gold skarns may have received less attention, similar to the iron skarns. Gangue mineralogy and deposit shapes are also highly variable and are dependent on whether they are endoskarns (within the intrusives) or exoskarns (within the host rocks).

Mineralization of past producers adjacent to the Nahmint property area are reported by Minfile as follows.

MONITOR past producer (Skarn)

Minfile 092C 007

200 metres south

The orebodies are found at three points and known as the Maynard, Hedley, and Leonard showings. The Maynard is about 600 metres from the canal and is where development occurred from 1900 to 1902.

The ore consists of pyrrhotite and chalcopyrite with small amounts of magnetite and pyrite. It occurs chiefly in the altered limestone, which consists of calcite, quartz, garnet, epidote and actinolite. Some ore is found in the metamorphosed volcanic rocks which are altered to epidote, chlorite and hematite. The strike of the Leonard orebody is reported to conform with the country rock outside the portal of the adit. An average sample taken from a crosscut in the adit across 0.6 metres assayed 6.1 per cent copper, 17.14 grams per tonne silver and a trace of gold (Minister of Mines Annual Report 1919, page 253).

MINERALIZATION: NAHMINT PROPERTY

Copper, gold and iron skarn mineralization as well as marble deposits on the Nahmint property appear to have formed where the Island intrusives occur along the lower contact of the Quatsino limestone with the underlying Karmutsen volcanics. Evidence of this lithologic relationship is both geological through regional mapping and geophysical through aeromagnetism.

No mention of porphyry copper mineralization has been documented on the Nahmint property to date, but neither have such deposits been targeted by explorationists. Sedimentary limestone deposits consist of the extensive exposures of the Quatsino limestone unit itself. (Houle, 2008).

Mineralization on MINFILE reported past producers and showings within the Nahmint Property area are reported as follows. The descriptions herein are copied from Minfile.

HAPPY JOHN showing (Skarn, Hydrothermal)

Minfile 092C 008

Within Tenure 1074713

There are several mineral occurrences in the area; these occur in skarns, in areas of shearing and in areas of silicification. The geology and mineralization is very similar to that of the Monitor mine and may actually be the extension of the Monitor zones. One zone on this property, if extended along strike, would intersect near the Hedley orebody and if projected to the shore of the canal would terminate near the portal of the main adit on the Leonard orebody.

There are 4 adits and opencuts on the Happy John #1 claim. These are centered on an area of altered limestone and volcanics containing pyrite and chalcopyrite. A sample from the workings assayed 12 per cent copper, 2.06 grams per tonne gold and 36.67 grams per tonne silver.

Mineralization: Nahmint Property (cont'd)**DEFIANCE** prospect (Skarn)

Minfile 092C 009

Within Tenure 1074715

Lenses of magnetite, intimately mixed with garnet, siderite and calcite, occur in a number of isolated pockets and lenses, strung out in northeast direction on a relatively flat bench. Two of the occurrences are cut by a small creek, while the third covers a flat about 5 metres square. The deposits are variably reported to occur at the contact of limestone and either Vancouver Group igneous rock (Karmutsen?) or hornblende diorite (Island Plutonic Suite?).

At the first lens the adit was caved but the dump material showed magnetite mixed with chalcopyrite. A sample of this material assayed 52.6 per cent iron, 3.3 per cent copper, 41.14 grams per tonne silver, 4.2 per cent sulphur, 12.1 per cent silica and a trace of gold (Minister of Mines Annual Report 1917, page 288).

The second lens is reported to show a width of about 3.7 metres and a length of 18 metres. The magnetite shows very little impurities; the only gangue material is garnetite in small quantities. The deposit strikes northwest and dips vertically. A sample of this material graded 66.0 per cent iron, 3.3 per cent silica and a trace of sulphur (Minister of Mines Annual Report 1917, page 289).

SILVER KING showing

Minfile 092F 061

Within Tenure 1067103

There are several mineral occurrences in the area; these occur in skarns, in areas of shearing and in areas of silicification. The geology and mineralization is very similar to that of the Monitor mine and may actually be the extension of the Monitor zones.

The Silver King occurrence consists of a skarn body, striking 040 degrees and dipping 50 degrees. Mineralization consists of magnetite, chalcopyrite, pyrite, bornite and sphalerite.

The Copper Queen occurrence, located approximately 300 metres to the east-south east, consists of a 0.25 metre thick skarn zone, striking 170 degrees and dipping vertically. The zone is hosted by a altered limestone containing calcite stringers and mineralized with pyrite, chalcopyrite, sphalerite and magnetite.

BLACK PRINCE showing (Skarn)

Minfile 092F 086

Within Tenure 1074719

Two bodies of high-grade, lustrous, granular magnetite occur. These are strongly sheeted, with sheets from about 4 to 5 centimetres thick, having a sugary texture. Pyrrhotite, pyrite, copper minerals and garnet are also reported. A sample assayed 70.2 per cent iron, 1.4 per cent silica and traces of phosphorous and sulphur (Minister of Mines Annual Report 1916).

SUNSHINE developed prospect

Minfile 092F 129

Within Tenure 1074720

Locally, small lenticular bodies of magnetite occur in the contact altered limestone, the largest covers a 7.5 by 1.5 metre area. Other irregular shaped masses of very impure rocky magnetite, impregnated with considerable pyrite and chalcopyrite occur. Two showings of micaceous hematite associated with magnetite are also present.

Mineralization: Nahmint Property (cont'd)**Sunshine (cont'd)**

The most promising showing is reported to be a vein, striking 155 degrees and from 60 to 90 centimetres wide, consisting of alternating masses of pyrrhotite and chalcopyrite.

At least three tunnels were driven on the deposits in the early part of the century. From one of the tunnels, driven on the pyrrhotite-chalcopyrite vein, about 6.3 tonnes of ore was shipped, from which was extracted 758 kilograms of copper (Minister on Mines Annual Report 1928). Mineral Policy data indicates that from 5 tonnes of ore mined in 1916, 869 kilograms of copper and 218 grams of silver were produced.

SAUCY LASS showing

Minfile 092F 156

Within Tenure 1067104

Locally, several occurrences of chalcopyrite ore associated with magnetite, garnet and epidote are reported.

Development work, done prior to 1920, consists of 3 adits; one is 18 metres long and the other two are 3 metres long each. A selected sample taken near the portal of a short adit assayed 14.5 per cent copper, 27.43 grams per tonne silver and a trace of gold (Minister of Mines Annual Report 1920).

In 2009, a sample (200925) of mineralized skarn exposed in a creek canyon assayed 0.8 per cent copper and 6.1 grams per tonne silver (Assessment Report 31248).

CASCADE past producer (Cu Skarn)

Minfile 092F 157

Within Tenure 1067104

Locally, a diabase dyke (andesite) intrudes limestone and is impregnated with chalcopyrite and iron pyrite (pyrrhotite?). The deposit is also reported to be associated with skarn material made up of garnetite, epidote, hornblende and quartz and is described as a vein.

HAPPY JOHN 2 showing

Minfile 092C 231

Within Tenure 1074715

There are several mineral occurrences in the area; these occur in skarns, in areas of shearing and in areas of silicification.

The geology and mineralization is very similar to that of the Monitor mine and may actually be the extension of the Monitor zones. One zone on this property, if extended along strike, would intersect near the Hedley orebody and, if projected to the shore of the canal, would terminate near the portal of the main adit on the Leonard orebody.

On the Happy John #2 claim a gossan or iron capping can be traced in a south east direction for 122 metres. Mineralization at the workings, a 12 metre adit and an 8 metre shaft, consists of chalcopyrite, magnetite, pyrrhotite and pyrite in garnetite gangue. The mineralization occurs at the limestone-volcanic contact.

HAPPY JOHN 4 showing (Skarn)

Minfile 092F 232

Within Tenure 1074715

There are several mineral occurrences in the area; these occur in skarns, in areas of shearing and in areas of silicification.

Mineralization: Nahmint Property (cont'd)**Happy John 4 (cont'd)**

The geology and mineralization is very similar to that of the Monitor mine and may actually be the extension of the Monitor zones. One zone on this property, if extended along strike, would intersect near the Hedley orebody and, if projected to the shore of the canal, would terminate near the portal of the main adit on the Leonard orebody.

The Happy John #4 workings consist of a 15-metre-long adit and a 5 metre trench near the portal of the adit, exposing limestone and skarn. An outcrop of siliceous volcanics hosting chalcopyrite and pyrite occurs 80 metres northwest of the adit.

In 1986, Chelan Resources completed a program of geochemical sampling, geological mapping and ground geophysical surveys on the area as the Liquid Sunshine project. Samples from the adit and trench assayed up to 5.46 per cent copper and 57.8 grams per tonne silver; while samples from the siliceous volcanic assayed up to 0.66 per cent copper, 13.5 grams per tonne silver and 9.9 grams per tonne gold (Assessment Report 15199).

MARK MURRAY showing (Skarn)

Minfile 092C 233

Within Tenure 1074715

The skarn zone contains chalcedonic quartz and garnet with sulphide mineralization of magnetite, chalcopyrite, pyrrhotite and pyrite. In 2007, two select outcrop grab samples, 364601 and 364651, assayed 4.49 and 1.91 per cent copper, 0.046 and 0.259 per cent zinc, 14.9 and 4.1 grams per tonne silver and 36.3 and 28.5 per cent iron, respectively (Assessment Report 29252). In 2010, a select grab sample (17333) assayed 4.64 per cent copper, 31.8 per cent iron and 10.6 grams per tonne silver (Assessment Report 31708).

A former shaft exposes another skarn zone, approximately 100 metres to the east. The zone is 0.2 metre wide and contains epidote-chlorite-actinolite-garnet alteration with chalcopyrite, pyrite and magnetite hosted by basalt and limestone. In 2009, a sample assayed 7.05 per cent copper, 41.2 per cent iron and 25.3 grams per tonne silver (Assessment Report 31248).

WASP showing (Skarn)

Minfile 092F 621

Within Tenure 1074719

Locally, a diopside-epidote-tremolite altered limestone and volcanics host massive sulphide mineralization consisting of copper (chalcopyrite?) and pyrite mineralization.

GOLD VEIN showing (Skarn)

Minfile 092F 622

Within Tenure 1074725

Locally, siliceous and altered limestone in or near contact with volcanic and intrusive rocks hosts copper (chalcopyrite?) mineralization.

GOLD NUGGET showing (Skarn)

Minfile 092F 623

Within Tenure 1074718

Locally, siliceous and epidote altered limestone and volcanics host pyrite and copper (chalcopyrite?) mineralization.

Mineralization: Nahmint Property (cont'd)**BELVIDERE** showing (Skarn)

Minfile 092F 624

Within Tenure 1074744

At the Belvidere (L.301) occurrence a 0.05 metre thick, rusty and vuggy copper skarn vein, oriented at 305 degrees strike and dipping 70 degrees northwest, is exposed over 10 metres length. The skarn is hosted by a felsic intrusive and contains chalcopyrite and pyrite with garnet. In 2007, a select outcrop grab sample (362657) assayed 1.52 per cent copper and 5 grams per tonne silver (Assessment Report 29574).

At the Tortilla (L.536) occurrence, located approximately 200 metres north, a 1.5 metre thick, foliated, fractured and vuggy iron-copper skarn zone, oriented at 155 degrees strike and 60 degrees dip to the south west, is exposed over a 15 to 25 metre strike length. The skarn zone is hosted by a mafic intrusive and contains magnetite with sulphide fractures and in-fillings including pyrite, chalcopyrite with garnet and epidote. In 2007, a select outcrop grab sample (362658) assayed 3.42 per cent copper and 3.5 grams per tonne silver (Assessment Report 29574).

2020 EXPLORATION PROGRAM**Prospecting and Rock Sampling****Purpose**

The purpose of the program was to locate any location of a geological prospect that may have the potential to be developed to an economic resource. Any indication of mineralization may indicate a potential concealed mineral resource.

Prospecting and sampling

Prospecting of area; orange flagging and marking of sample sites. Multiple photos taken of samples and areas. GPS coordinates were taken, and all samples recorded and mapped. Prospecting notes, operating with equipment (Truck, GPS, Tools and sampling).

Ten samples, eight stream sediment and two rock, were taken from various locations throughout the property area. All the sample locations are shown on the Index Map (*Figure 7.*) which also shows the coverage of the samples by two maps with a scale of 1:8464. Selected assays are shown on the two sample location maps. Complete assays of the samples are shown in Appendix 1 as Certificate of Analysis VA20050460 and VA20050462. Particulars of the samples are reported in Appendix 2.

Two types of samples were collected: outcrop and stream sediment.

The outcrop sample is a sample taken from its natural or original place. The methodology of sample retrieval was to select a geologically featured site and take a hand-sized rock sample.

The stream sediment or heavy metal sample is taken from the stream sediment and panned in order to concentrate the high-density minerals, which would include gold, and reveal potential pathfinder minerals that would not be revealed in an unpanned sample assay.

Methods and Procedures**(Andris Kikauka, P.Geo.)**

At each site, stream sediment samples were processed using a tree planting shovel and collecting sand-silt-cobble size fraction of bank material from creek, and the sample was sieved through a 20-mesh screen (Min-En mineral exploration model) affixed to the top of a five gallon pail.

Prospecting and Rock Sampling (cont'd)

The resulting field sieved sample was labelled, flagged, dried, and securely shipped to ALS Minerals, where samples were sieved to produce an 80-mesh subsample which was digested in an aqua regia solution and then assayed using multi-element ICP-MS techniques. Stream sediment samples were subjected to Prep-41 procedure, dried at 60°C and sieved to obtain 75-100g of 80-mesh material. Samples were analyzed using an Aqua Regia digestion on a sub sample using multi-element ICP-MS procedures.

Methods and Procedures (cont'd)

Rock samples collected in 2020 on the Nahmint claims, consist of outcrop chip samples using hammer and moil, located proximal to stream samples taken in the northeast portion of the claims. The samples were broken with a rock hammer and placed in a marked plastic sample bag along with a sample number written on a tape tag with a felt marker and marked with flagging and ID number.

A location was determined using a Garmin 60CX handheld GPS receiver with easting and northing coordinates recorded (accuracy of 3-10 meters depending on topography). At the lab rock samples were crushed to produce a sub sample and then pulverized until 70% passed a 10-mesh screen. Samples were all subjected to 31 element ICP, where 0.5 grams of sample was digested with Agua Regia at 95°C for 1 hour, bulked to 10 ml with distilled water (near total digestion only). Fire assay for gold was analyzed by 30-gram fire assay, with an AA finish for gold and ICP finish for multi-element geochemical analysis.

*Figure 7. Sample Index Map
(Base map: Google Earth)*

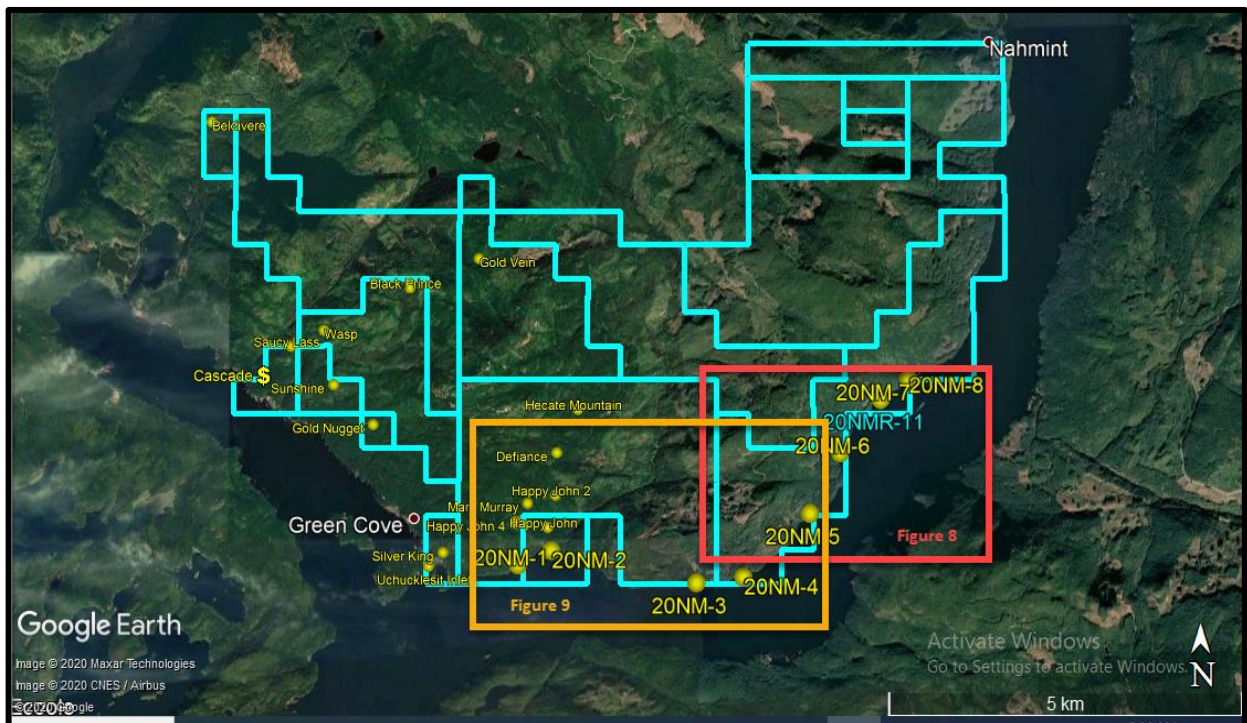
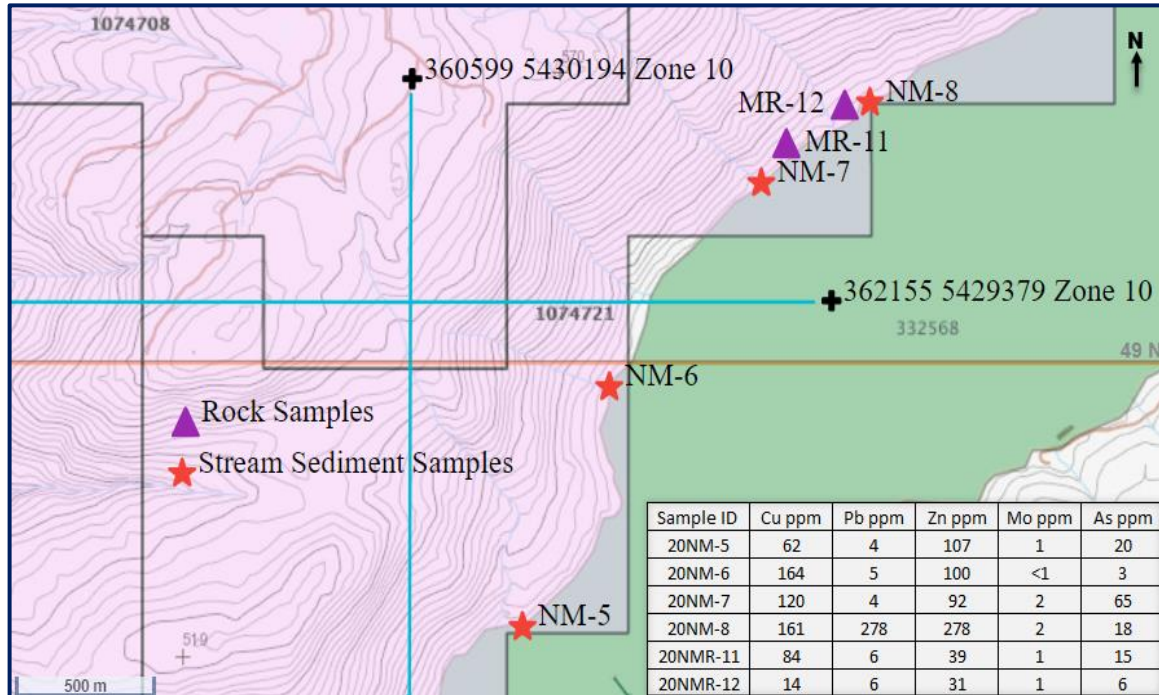


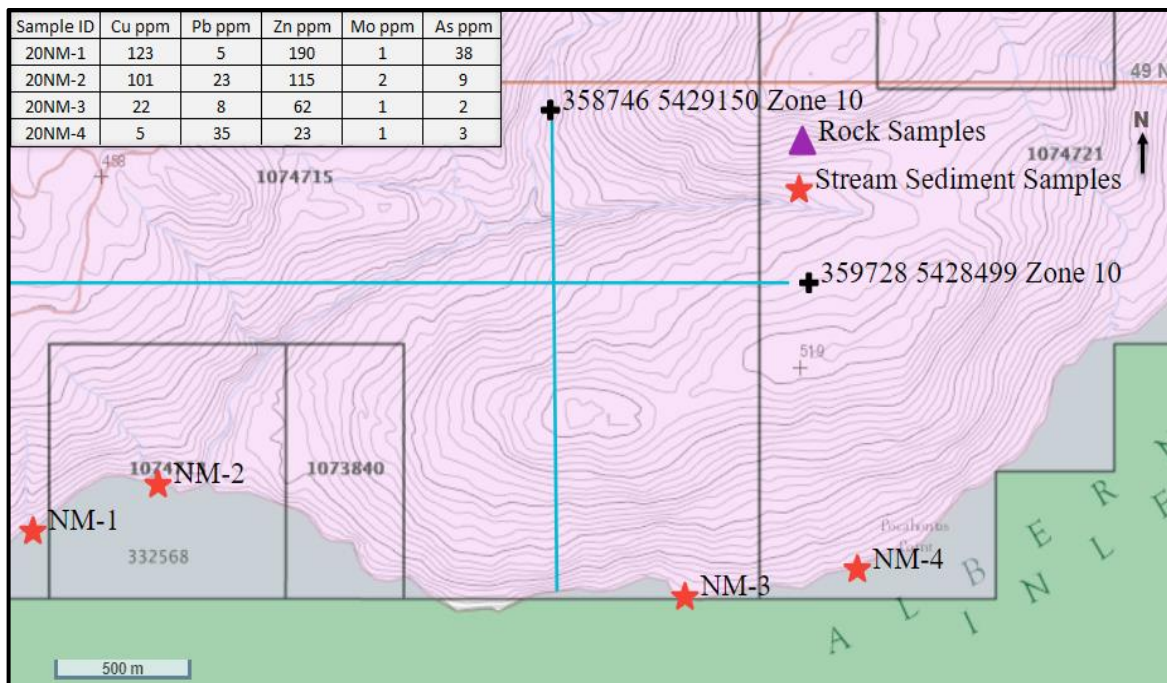
Figure 8. Northeast sample locations* & selected assays**
(Base map from MapPlace)



*see Figure 7 for location on Nahmint Property.

**see Appendix 1 for complete assay values.

Figure 9. Western sample locations* & selected assays**
(Base map from MapPlace 2)



*see Figure 7 for location on Nahmint Property.

**see Appendix 1 for complete assay values.

STRUCTURAL ANALYSIS

a) Purpose

The purpose of the structural analysis was to delineate any area of relative major fault intersections that could be the centre of maximum brecciation and depth intensive to provide the most favourable conduit for any residual hydrothermal fluids from a mineral laden magmatic reservoir to be transported under gaseous pressure to surface.

b) Method

A shaded relief image for Tenure 1074721 of the Nahmint property was obtained from MapPlace2. The shaded relief image provided by MapPlace2 uses a single direction of light oriented at 325°N to create its shading and does not represent a composite image composed of multiple light directions. The DEM image was examined and lineaments were delineated manually. The manually defined lineaments defined from a shaded relief image can represent joints, faults or shear zones. Professional experience was used to define all lineaments, primary structures and prospective areas shown in Figure 10.

c) Results

Two cross-structural locations were delineated from 50 indicated northwesterly, and northeasterly trending structures. The results are reported on in the Interpretation and Conclusions section of this report.

*Figure 10. Indicated lineaments on Tenure 1074721
(Base map: MapPlace & Google)*

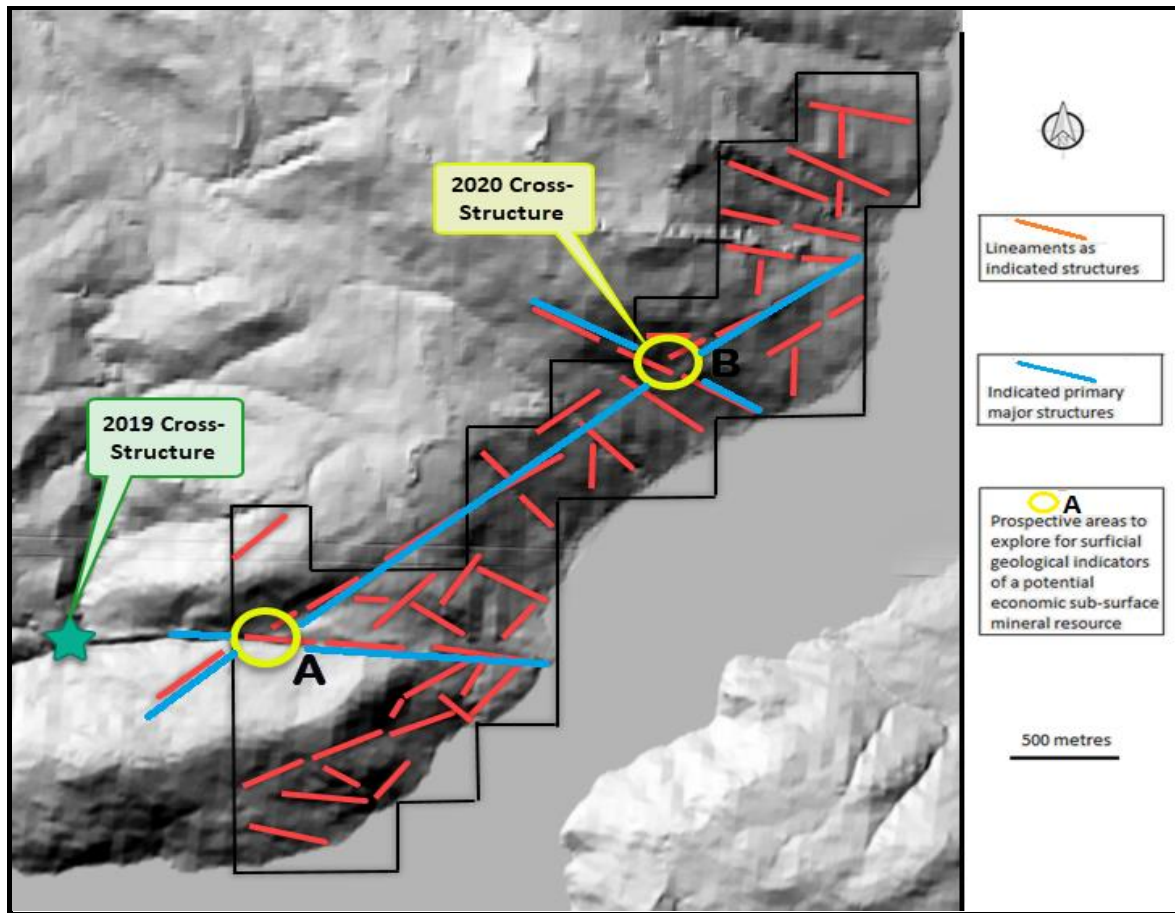
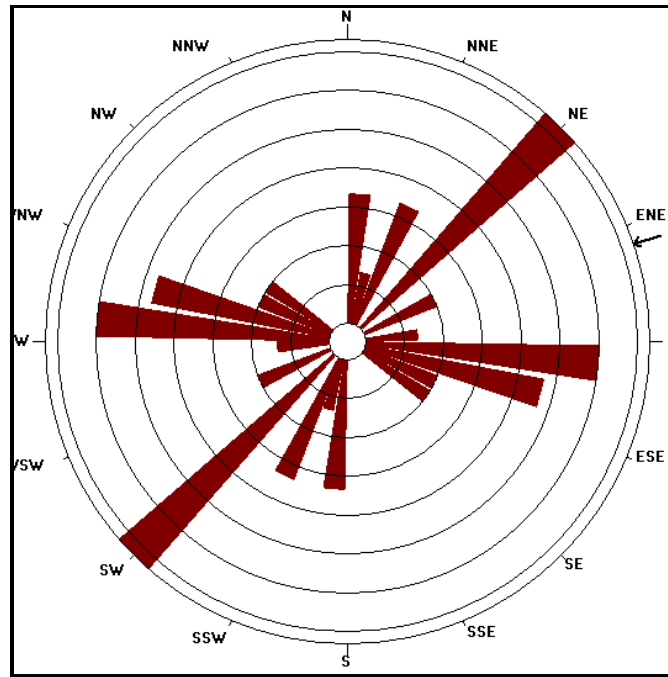


Table 2. Approximate Location of the Cross-Structures
(UTM-10U NAD 83)

Cross-structure		UTM East	UTM North
A		359,651	5,428,810
B		362,031	5,430,529

Figure 11. Rose Diagram from Indicated lineaments



STATISTICS

Axial (non-polar) data
 No. of Data = 50
 Sector angle = 10°
 Scale: tick interval = 3% [1.5 data]
 Maximum = 22% [11 data]
 Mean Resultant dir'n = 071-251
 [Approx. 95% Confidence interval = ±30.0°]
 (valid only for unimodal data)

Mean Resultant dir'n = 071.2 - 251.2
 Circ.Median = 066.0 - 246.0
 Circ.Mean Dev.about median = 34.6°
 Circ. Variance = 0.26
 Circular Std.Dev. = 44.11°
 Circ. Dispersion = 3.26
 Circ.Std Error = 0.2552
 Circ.Skewness = 1.42
 Circ.Kurtosis = -9.90

kappa = 0.64
 (von Mises concentration param. estimate)

Resultant length = 15.28
 Mean Resultant length = 0.3056

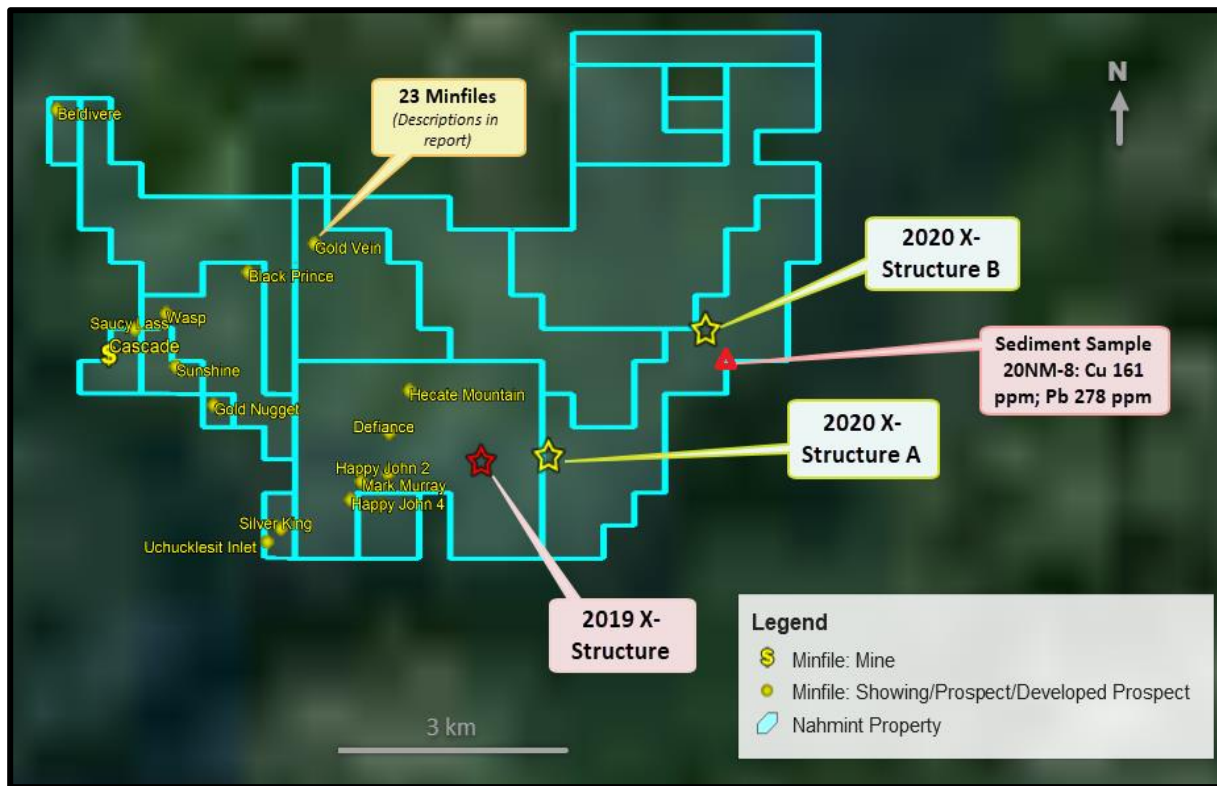
'Mean' Moments: Cbar = -0.2419; Sbar = 0.1867
 'Full' trig. sums: SumCos = -12.0974; Sbar = 9.3367

Mean resultant of doubled angles = 0.3918
 Mean direction of doubled angles = 038

(Usage references: Mardia & Jupp, 'Directional Statistics', 1999, Wiley. Fisher, 'Statistical Analysis of Circular Data', 1993, Cambridge University Press)
 Note: The 95% confidence calculation uses Fisher's (1993) 'large-sample method'

Figure 12. Nahmint Property, 23 Minfiles, 2019 & 2020 Cross (X)-Structures, and an Anomalous Sediment Sample

(Base map: MapPlace & Google)



INTERPRETATION, CONCLUSIONS, and RECOMMENDATIONS

The 2020 exploration program of sampling and structural analysis on the Nahmint Property was successful in that one localized area was determined as an area that should be explored in the search for a concealed mineral resource.

The structural analysis revealed two cross-structural locations where any waning magmatic body at depth could reveal its constituents at surface by migrating hydrothermal fluids via the structurally prepared brecciated conduit. Cross-structure B may have been such a conduit as indicated from elevated and/or anomalous copper, lead, and zinc values within the sediments of a stream which drains the area of the cross-structure.

As surficial indications of a deep-seated porphyry may be revealed at cross-structural locations in the geology, alteration, and pathfinder minerals, it is recommended that the area from the location of cross-structure B to the location of Sample 20NM-8 (Figure 12) be explored for geological and mineralogical porphyry indications or any deposit type other than skarn deposits which are prevalent on the Nahmint property. These surficial indications may provide the clues to a deep-seated porphyry may have provided the mineralized hydrothermal fluids for the skarns. As shown in Figure 13, skarn, porphyry, epithermal, and massive sulphide deposits are all related in a volcanic environment.

No mention of porphyry copper mineralization has been documented on the Nahmint property to date, but neither have such deposits been targeted by explorationists. Sedimentary limestone deposits consist of the extensive exposures of the Quatsino limestone unit itself. (Houle, 2008).

Figure 13. Mineral Zones in a Volcanic Environment
(Base map: MapPlace & Google)

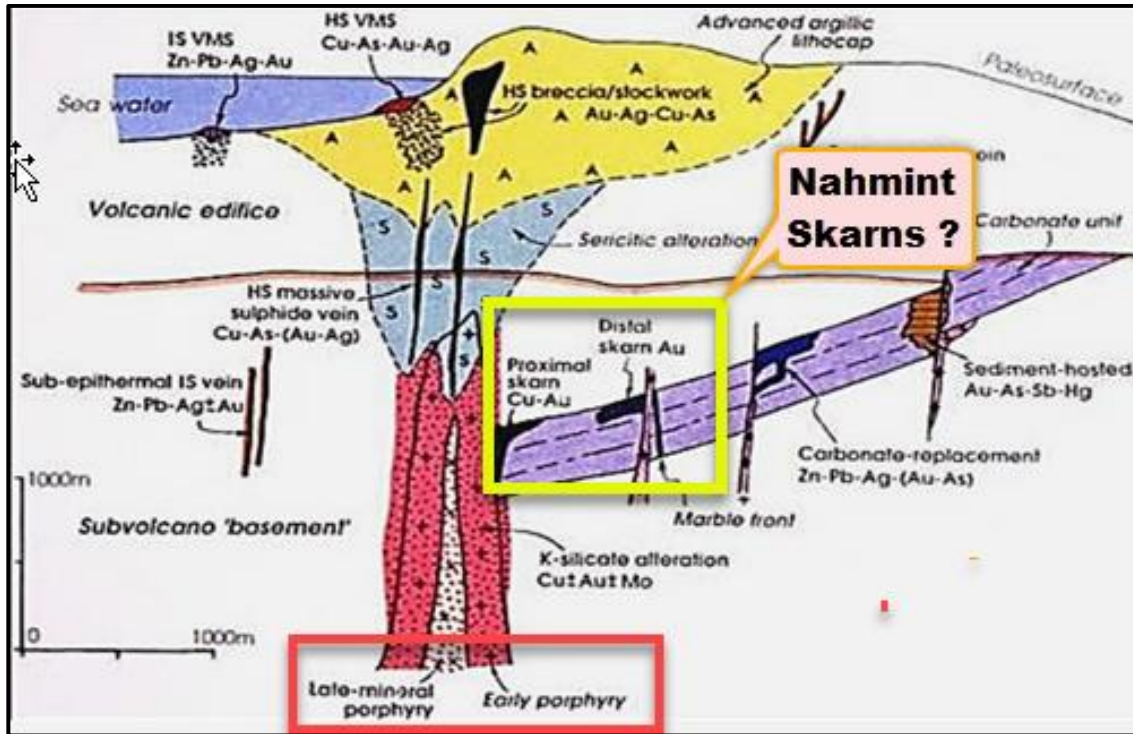


Figure 14. Island Copper Mine: Port Hardy, Vancouver Island
(Credits: ardhives,library,uvic.ca)



Respectfully submitted
Sookochoff Consultants Inc.



Laurence Sookochoff, PEng

SELECTED REFERENCES

Borovic, I. 1988 - Report on the Mineral Exploration of the Gold Nugget Property for Barona Resources Limited. April 20, 1988. AR 17714.

Coffin, D. 1989 - Assessment Report on the Gold Nugget Property for Barona Resources Ltd. November 25, 1989. AR 19485.

Coffin, D. 1989 - Assessment Report on the Liquid Sunshine Property for Nitro Resources Ltd. November 25, 1989. AR 19484.

Falconer, J.S., Graham, J.C., et al. 1986 - Reconnaissance Surveys on the Liquid Sunshine Group of Mineral Claims for Chelan Resources Incorporated. 16 July 1986. AR 15199.

Houle, J. 2010 - Technical Report on the Nahmint Property for Nahminto Resources Ltd. October 15, 2010. AR 31708.

Houle, J. 2009 - Technical Report on the Nahmint Property for Torch River Resources Ltd. February 9, 2009. AR 30799.

Houle, J. 2008 - Prospecting, Rock Sampling and Geochemistry on the Nahmint Property for Nahminto Resources Ltd. January 22, 2008. AR 29660.

Houle, J. 2007 - Prospecting, Geological Mapping, Rock Sampling and Geochemistry on Portions of the Nahmint Property for Nahminto Resources Ltd. August 15, 2007. AR 29252.

Lenntech-Heavy Metals:

<https://www.lenntech.com/processes/heavy/heavy-metals/heavy-metals.htm>

MapPlace – Map downloads

MtOnline - MINFILE downloads.

Sookochoff, L. 2019 – Geological and Prospecting Report on the Nahmint Property. December 3, 2019.

STATEMENT OF COSTS

Field work was performed on the Nahmint Property between February 23, 2020 to March 8, 2020 to the value as follows:

Structural Analysis

L. Sookochoff, PEng: February 25, 2020 to March 6, 2020

3 days (accumulated time) @ \$1,200.00 -----		\$ 3,600.00
Report	\$3,200.00	
Maps	<u>700.00</u>	3,900.00

Prospecting and Sampling

ITEMIZED COST STATEMENT-

(from A. Kikauka P.Geol.)

NAHMINT MINERAL PROJECT

GEOCHEMICAL FIELDWORK PERFORMED FEBRUARY 24-25, 2020,
 WORK PERFORMED ON MINERAL TENURES 1074713, 1074715, 1074721
 ALBERNI MINING DIVISION, NTS 92C 15W (TRIM 092C 096)

FIELD CREW:

A Kikauka (Geologist) 2 days (surveying, mapping, sampling) \$ 1,260.00

FIELD COSTS:

Mob/demob/preparation	88.50	
Meals and accommodations	225.89	
Truck mileage & fuel	208.25	
Equipment & safety supplies (first aid, bags, flags, tags)	15.75	
ICP AES (ALS ME-MS41, & Au-ICP21)		
geochemical analysis geochemistry (2 rock samples)	78.40	
ICP AES (ALS ME-MS41, & Au-OG43)		
geochemical analysis geochemistry (8 stream sed samples)	231.00	
Water taxi	600.00	
Shipping	29.85	
Communications (VHF radio, cell phone)	20.00	<u>2,757.64</u>
		\$ 10,257.64
		=====

CERTIFICATE

I, Laurence Sookochoff, of the City of Vancouver, in the Province of British Columbia, do hereby certify:
That I am a Consulting Geologist and principal of Sookochoff Consultants Inc. with an address at 120 125A-1030 Denman Street, Vancouver, BC V6G 2M6.

I, Laurence Sookochoff, further certify that:

- 1) I am a graduate of the University of British Columbia (1966) and hold a B.Sc. degree in Geology.
- 2) I have been practicing my profession for the past fifty-four years.
- 3) I am registered and in good standing with the Engineers and Geoscientists British Columbia.
- 4) The information for this report is based on information as itemized in the Selected Reference section of this report, from exploration work done in the Nahmint Property area.
- 5) I have no interest in the Nahmint Property as described herein.



Laurence Sookochoff, P. Eng.

Appendix I

Sample Assays



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: KIKAUKA, ANDRIS
4199 HIGHWAY 101
POWELL RIVER BC V8A 0C7

Page: 1
Total # Pages: 3 (A - C)
Plus Appendix Pages
Finalized Date: 16-MAR-2020
Account: KIKAND

QC CERTIFICATE VA20050460

Project: Nahmint

This report is for 2 Rock samples submitted to our lab in Vancouver, BC, Canada on 28-FEB-2020.

The following have access to data associated with this certificate:

ANDRIS KIKAUKA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
DISP-01	Disposal of all sample fractions
CRU-QC	Crushing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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:

Saa Traxler, General Manager, North Vancouver



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: KIKAUKA, ANDRIS
 4199 HIGHWAY 101
 POWELL RIVER BC V8A 0C7

Page: 2 - A
 Total # Pages: 3 (A - C)
 Plus Appendix Pages
 Finalized Date: 16-MAR-2020
 Account: KIKAND

Project: Nahmint

QC CERTIFICATE OF ANALYSIS VA20050460

Sample Description	Method Analyte Units LOD	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm	ME-ICP41 Hg ppm
STANDARDS																
G313-5																
Target Range - Lower Bound																
Upper Bound																
MRGeo08		4.6	2.64	33	<10	450	0.7	<2	1.10	2.3	20	92	628	3.73	10	<1
Target Range - Lower Bound		3.8	2.44	27	<10	370	<0.5	<2	1.00	1.1	16	81	586	3.22	<10	<1
Upper Bound		5.1	3.00	39	20	530	1.9	5	1.24	3.4	22	102	676	3.96	30	2
OREAS 602		>100	0.62	677	<10	30	<0.5	62	0.54	24.9	10	29	5250	2.04	<10	1
Target Range - Lower Bound		106.0	0.57	577	<10	<10	<0.5	50	0.46	22.2	7	26	4810	1.94	<10	<1
Upper Bound		100.0	0.71	709	20	50	1.3	66	0.59	28.2	12	34	5530	2.40	30	3
OREAS 682																
Target Range - Lower Bound																
Upper Bound																
PK03																
Target Range - Lower Bound																
Upper Bound																
PMP-18																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<1
Target Range - Lower Bound		<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<1
Upper Bound		0.4	0.02	4	20	20	1.0	4	0.02	1.0	2	2	2	0.02	20	2



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: KIKAUKA, ANDRIS
 4199 HIGHWAY 101
 POWELL RIVER BC V8A 0C7

Page: 2 - B
 Total # Pages: 3 (A - C)
 Plus Appendix Pages
 Finalized Date: 16-MAR-2020
 Account: KIKAND

Project: Nahmint

QC CERTIFICATE OF ANALYSIS VA20050460

Sample Description	Method Analyte Units LOD	ME-ICP41 K % 0.01	ME-ICP41 La ppm 10	ME-ICP41 Mg % 0.01	ME-ICP41 Mn ppm 5	ME-ICP41 Mo ppm 1	ME-ICP41 Na % 0.01	ME-ICP41 Ni ppm 1	ME-ICP41 P ppm 10	ME-ICP41 Pb ppm 2	ME-ICP41 S % 0.01	ME-ICP41 Sb ppm 2	ME-ICP41 Sc ppm 1	ME-ICP41 Sr ppm 1	ME-ICP41 Th ppm 20	ME-ICP41 Ti % 0.01
STANDARDS																
G313-5	Target Range - Lower Bound															
	Upper Bound															
MRGeo08		1.31	30	1.18	407	13	0.34	714	1010	1090	0.31	7	7	81	20	0.39
	Target Range - Lower Bound	1.12	20	1.03	378	12	0.30	621	900	957	0.27	<2	5	71	<20	0.33
	Upper Bound	1.40	60	1.29	473	17	0.39	761	1130	1175	0.35	8	10	89	60	0.43
OREAS 602		0.09	10	0.10	207	4	0.02	59	220	840	2.02	63	1	49	<20	0.01
	Target Range - Lower Bound	0.07	<10	0.08	193	2	<0.01	54	210	768	1.81	51	<1	44	<20	<0.01
	Upper Bound	0.12	30	0.13	247	7	0.05	68	280	944	2.23	73	3	56	40	0.03
OREAS 682	Target Range - Lower Bound															
	Upper Bound															
PK03	Target Range - Lower Bound															
	Upper Bound															
PMP-18	Target Range - Lower Bound															
	Upper Bound															
BLANKS																
BLANK	Target Range - Lower Bound	<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	<20	<0.01
	Upper Bound	0.02	20	0.02	10	2	0.02	2	20	4	0.02	4	2	2	40	0.02



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: KIKAUKA, ANDRIS
 4199 HIGHWAY 101
 POWELL RIVER BC V8A 0C7

Page: 2 - C
 Total # Pages: 3 (A - C)
 Plus Appendix Pages
 Finalized Date: 16-MAR-2020
 Account: KIKAND

Project: Nahmint

QC CERTIFICATE OF ANALYSIS VA20050460

Sample Description	Method Analyte Units LOD	ME-ICP41 Tl ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm	Au-ICP21 Au ppm
		10	10	1	10	2	0.001
STANDARDS							
G313-5							7.13
Target Range - Lower Bound							6.64
Upper Bound							7.50
MGeo08		<10	<10	102	<10	766	
Target Range - Lower Bound		<10	<10	90	<10	708	
Upper Bound		20	30	112	20	870	
OREAS 602		<10	<10	10	<10	4020	
Target Range - Lower Bound		<10	<10	8	<10	3680	
Upper Bound		20	20	14	20	4500	
OREAS 682							0.077
Target Range - Lower Bound							
Upper Bound							
PK03							5.03
Target Range - Lower Bound							4.73
Upper Bound							5.34
PMP-18							0.299
Target Range - Lower Bound							0.289
Upper Bound							0.327
BLANKS							
BLANK							0.003
Target Range - Lower Bound							<0.001
Upper Bound							0.002
BLANK		<10	<10	<1	<10	<2	
Target Range - Lower Bound		<10	<10	<1	<10	<2	
Upper Bound		20	20	2	20	4	



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: KIKAUKA, ANDRIS
 4199 HIGHWAY 101
 POWELL RIVER BC V8A 0C7

Page: 3 - A
 Total # Pages: 3 (A - C)
 Plus Appendix Pages
 Finalized Date: 16-MAR-2020
 Account: KIKAND

Project: Nahmint

QC CERTIFICATE OF ANALYSIS VA20050460

Sample Description	Method Analyte Units LOD	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %	ME-ICP41 Ga ppm	ME-ICP41 Hg ppm
		0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10	1
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES															
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.2 <0.2 <0.2 0.4	1.25 1.32 1.21 1.36	<2 <2 <2 4	<10 <10 <10 20	400 420 370 450	<0.5 <0.5 <0.5 1.0	<2 <2 <2 4	1.52 1.62 1.48 1.66	<0.5 <0.5 <0.5 1.0	20 21 18 23	19 21 18 22	291 308 288 311	2.49 2.63 2.42 2.70	<10 <10 <10 20	<1 1 <1 2

***** 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: KIKAUKA, ANDRIS
 4199 HIGHWAY 101
 POWELL RIVER BC V8A 0C7

Page: 3 - B
 Total # Pages: 3 (A - C)
 Plus Appendix Pages
 Finalized Date: 16-MAR-2020
 Account: KIKAND

Project: Nahmint

QC CERTIFICATE OF ANALYSIS VA20050460

Sample Description	Method Analyte Units LOD	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mg %	ME-ICP41 Mn ppm	ME-ICP41 Mo ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Sb ppm	ME-ICP41 Sc ppm	ME-ICP41 Sr ppm	ME-ICP41 Th ppm	ME-ICP41 Ti %
		0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20	0.01
ORIGINAL DUP Target Range - Lower Bound Upper Bound	DUPLICATES															
ORIGINAL DUP Target Range - Lower Bound Upper Bound																
ORIGINAL DUP Target Range - Lower Bound Upper Bound		0.78 0.81 0.75 0.84	<10 <10 <10 20	1.09 1.16 1.06 1.19	495 526 480 541	1 1 <1 2	0.07 0.08 0.06 0.09	23 24 21 26	230 240 210 260	<2 <2 <2 4	0.34 0.36 0.32 0.38	<2 2 <2 4	6 6 5 7	8 10 8 10	<20 <20 <20 40	0.13 0.14 0.12 0.15



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: KIKAUKA, ANDRIS
 4199 HIGHWAY 101
 POWELL RIVER BC V8A 0C7

Page: 3 - C
 Total # Pages: 3 (A - C)
 Plus Appendix Pages
 Finalized Date: 16-MAR-2020
 Account: KIKAND

Project: Nahmint

QC CERTIFICATE OF ANALYSIS VA20050460

Sample Description	Method Analyte Units LOD	ME-ICP41 Tl ppm 10	ME-ICP41 U ppm 10	ME-ICP41 V ppm 1	ME-ICP41 W ppm 10	ME-ICP41 Zn ppm 2	Au-ICP21 Au ppm 0.001
DUPLICATES							
ORIGINAL							0.949
DUP							0.916
Target Range - Lower Bound							0.885
Upper Bound							0.980
ORIGINAL							0.002
DUP							0.002
Target Range - Lower Bound							<0.001
Upper Bound							0.003
ORIGINAL		<10	<10	62	<10	32	
DUP		<10	<10	66	<10	35	
Target Range - Lower Bound		<10	<10	60	<10	30	
Upper Bound		20	20	68	20	37	



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: KIKAUKA, ANDRIS
4199 HIGHWAY 101
POWELL RIVER BC V8A 0C7

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 16-MAR-2020
Account: KIKAND

Project: Nahmint

QC CERTIFICATE OF ANALYSIS VA20050460

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-ICP21	CRU-31	CRU-QC	DISP-01
	LOG-22	ME-ICP41	PUL-31	SPL-21
	WEI-21			



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: KIKAUKA, ANDRIS
4199 HIGHWAY 101
POWELL RIVER BC V8A 0C7

Page: 1
Total # Pages: 2 (A - C)
Plus Appendix Pages
Finalized Date: 21-MAR-2020
This copy reported on
23-MAR-2020
Account: KIKAND

CERTIFICATE VA20050462

Project: Nahmint

This report is for 8 Sediment samples submitted to our lab in Vancouver, BC, Canada on 28-FEB-2020.

The following have access to data associated with this certificate:

ANDRIS KIKAUKA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
DISP-01	Disposal of all sample fractions
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-OG43	Ore Grade Au - 25g AR	ICP-MS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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:

Saa Traxler, General Manager, North Vancouver



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: KIKAUKA, ANDRIS
 4199 HIGHWAY 101
 POWELL RIVER BC V8A 0C7

Page: 2 - A
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
 Finalized Date: 21-MAR-2020
 Account: KIKAND

Project: Nahmint

CERTIFICATE OF ANALYSIS VA20050462

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
20NM-1		0.16	0.2	3.47	38	10	50	<0.5	<2	1.10	<0.5	32	134	123	6.08	10
20NM-2		0.50	0.2	3.67	9	10	30	<0.5	<2	1.68	<0.5	32	135	101	7.16	10
20NM-3		0.20	<0.2	2.08	2	<10	40	0.5	<2	0.61	<0.5	15	33	22	4.57	10
20NM-4		0.14	<0.2	0.87	3	10	40	<0.5	<2	0.29	<0.5	3	55	5	1.83	<10
20NM-5		0.26	<0.2	2.24	20	10	40	<0.5	<2	1.02	<0.5	19	49	62	4.76	10
20NM-6		0.22	0.2	3.38	3	10	70	<0.5	<2	0.92	<0.5	32	73	164	6.89	10
20NM-7		0.20	0.4	2.96	65	<10	40	<0.5	<2	0.77	1.1	31	69	120	5.98	10
20NM-8		0.32	<0.2	2.78	18	10	10	<0.5	<2	0.34	0.5	40	87	161	7.63	10



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: KIKAUKA, ANDRIS
 4199 HIGHWAY 101
 POWELL RIVER BC V8A 0C7

Page: 2 - B
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
 Finalized Date: 21-MAR-2020
 Account: KIKAND

Project: Nahmint

CERTIFICATE OF ANALYSIS VA20050462

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
20NM-1		1	0.04	<10	2.59	1055	1	0.04	87	450	5	0.07	<2	12	64	<20
20NM-2		<1	0.06	<10	2.67	1805	2	0.79	97	340	23	0.08	<2	11	81	<20
20NM-3		<1	0.06	<10	0.86	762	1	0.04	16	220	8	0.03	<2	6	41	<20
20NM-4		<1	0.10	10	0.26	800	1	0.71	2	610	35	0.12	<2	1	60	<20
20NM-5		<1	0.04	<10	1.17	724	1	0.03	38	290	4	0.08	2	7	30	<20
20NM-6		<1	0.06	<10	2.19	1265	<1	0.67	51	460	5	0.10	<2	13	46	<20
20NM-7		<1	0.03	<10	1.45	840	2	0.03	68	440	4	0.05	6	14	17	<20
20NM-8		<1	0.06	<10	1.82	1030	2	0.36	86	390	278	0.08	19	17	19	<20



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: KIKAUKA, ANDRIS
 4199 HIGHWAY 101
 POWELL RIVER BC V8A 0C7

Page: 2 - C
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
 Finalized Date: 21-MAR-2020
 Account: KIKAND

Project: Nahmint

CERTIFICATE OF ANALYSIS VA20050462

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-OG43
		Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.01
20NM-1		0.35	<10	<10	157	<10	190	<0.01
20NM-2		0.43	<10	<10	165	<10	115	<0.01
20NM-3		0.16	<10	<10	106	<10	62	<0.01
20NM-4		0.05	<10	<10	22	<10	23	<0.01
20NM-5		0.25	<10	<10	132	<10	107	<0.01
20NM-6		0.32	<10	<10	204	<10	100	0.01
20NM-7		0.15	<10	<10	176	<10	92	0.01
20NM-8		0.09	<10	<10	189	<10	278	0.05



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: KIKAUKA, ANDRIS
 4199 HIGHWAY 101
 POWELL RIVER BC V8A 0C7

Page: Appendix 1
 Total # Appendix Pages: 1
 Finalized Date: 21-MAR-2020
 Account: KIKAND

Project: Nahmint

CERTIFICATE OF ANALYSIS VA20050462
--

CERTIFICATE COMMENTS									
Applies to Method:	<p>LABORATORY ADDRESSES</p> <p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-OG43</td> <td style="width: 33%;">DISP-01</td> <td style="width: 33%;">LOG-22</td> <td style="width: 15%;"></td> </tr> <tr> <td>SCR-41</td> <td>WEI-21</td> <td></td> <td>ME-ICP41</td> </tr> </table>	Au-OG43	DISP-01	LOG-22		SCR-41	WEI-21		ME-ICP41
Au-OG43	DISP-01	LOG-22							
SCR-41	WEI-21		ME-ICP41						



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: KIKAUKA, ANDRIS
4199 HIGHWAY 101
POWELL RIVER BC V8A 0C7

Page: 1
Total # Pages: 2 (A - C)
Plus Appendix Pages
Finalized Date: 16-MAR-2020
Account: KIKAND

CERTIFICATE VA20050460

Project: Nahmint

This report is for 2 Rock samples submitted to our lab in Vancouver, BC, Canada on 28-FEB-2020.

The following have access to data associated with this certificate:

ANDRIS KIKAUKA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
DISP-01	Disposal of all sample fractions
CRU-QC	Crushing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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:

Saa Traxler, General Manager, North Vancouver



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: KIKAUKA, ANDRIS
 4199 HIGHWAY 101
 POWELL RIVER BC V8A 0C7

Page: 2 - A
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
 Finalized Date: 16-MAR-2020
 Account: KIKAND

Project: Nahmint

CERTIFICATE OF ANALYSIS VA20050460

Sample Description	Method Analyte Units LOD	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
20NMR-11		2.70	<0.2	3.68	15	10	10	<0.5	<2	5.98	0.6	29	67	84	5.77	10
20NMR-12		2.86	<0.2	4.79	6	30	10	<0.5	<2	6.73	0.5	27	103	14	6.48	20

***** 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: KIKAUKA, ANDRIS
 4199 HIGHWAY 101
 POWELL RIVER BC V8A 0C7

Page: 2 - B
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
 Finalized Date: 16-MAR-2020
 Account: KIKAND

Project: Nahmint

CERTIFICATE OF ANALYSIS VA20050460

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
20NMR-11		1	0.02	<10	1.52	587	1	0.06	51	390	6	1.00	2	14	54	<20
20NMR-12		<1	0.01	<10	0.84	332	1	0.02	64	350	6	1.96	<2	16	18	<20



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: KIKAUKA, ANDRIS
 4199 HIGHWAY 101
 POWELL RIVER BC V8A 0C7

Page: 2 - C
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
 Finalized Date: 16-MAR-2020
 Account: KIKAND

Project: Nahmint

CERTIFICATE OF ANALYSIS VA20050460

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Au-ICP21
		Ti	Tl	U	V	W	Zn	Au
		%	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	10	10	1	10	2	0.001
20NMR-11		0.37	<10	<10	161	<10	39	0.004
20NMR-12		0.48	<10	<10	208	<10	31	0.008



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: KIKAUKA, ANDRIS
4199 HIGHWAY 101
POWELL RIVER BC V8A 0C7

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 16-MAR-2020
Account: KIKAND

Project: Nahmint

CERTIFICATE OF ANALYSIS VA20050460

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.			
	Au-ICP21	CRU-31	CRU-QC	DISP-01
	LOG-22	ME-ICP41	PUL-31	SPL-21
	WEI-21			



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: KIKAUKA, ANDRIS
4199 HIGHWAY 101
POWELL RIVER BC V8A 0C7

Page: 1
Total # Pages: 2 (A - C)
Plus Appendix Pages
Finalized Date: 21-MAR-2020
This copy reported on
23-MAR-2020
Account: KIKAND

QC CERTIFICATE VA20050462

Project: Nahmint

This report is for 8 Sediment samples submitted to our lab in Vancouver, BC, Canada on 28-FEB-2020.

The following have access to data associated with this certificate:

ANDRIS KIKAUKA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
DISP-01	Disposal of all sample fractions
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-OG43	Ore Grade Au - 25g AR	ICP-MS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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:

Saa Traxler, General Manager, North Vancouver



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: KIKAUKA, ANDRIS
 4199 HIGHWAY 101
 POWELL RIVER BC V8A 0C7

Page: 2 - A
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
 Finalized Date: 21-MAR-2020
 Account: KIKAND

Project: Nahmint

QC CERTIFICATE OF ANALYSIS VA20050462

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm
		0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10	1
STANDARDS																
CDN-CM-34		3.8	2.30	102	<10	70	<0.5	6	1.42	1.0	41	180	5780	4.28	10	1
Target Range - Lower Bound		3.1	2.14	93	<10	70	<0.5	<2	1.20	<0.5	36	164	5390	3.91	<10	<1
Upper Bound		4.3	2.64	118	30	140	1.4	8	1.49	2.0	46	202	6210	4.80	30	2
EMOG-17		68.9	1.54	574	<10	40	<0.5	7	1.00	20.3	763	47	8330	4.53	<10	1
Target Range - Lower Bound		60.1	1.45	520	<10	30	<0.5	<2	0.87	17.9	679	42	7780	4.18	<10	<1
Upper Bound		73.9	1.79	640	20	80	1.5	10	1.09	22.9	833	54	8960	5.14	30	3
OxJ47																
Target Range - Lower Bound																
Upper Bound																
PMP-18																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK		<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<1
Target Range - Lower Bound		<0.2	<0.01	<2	<10	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<1
Upper Bound		0.4	0.02	4	20	20	1.0	4	0.02	1.0	2	2	2	0.02	20	2
DUPLICATES																
20CRS-5		<0.2	3.23	11	<10	20	<0.5	<2	0.08	<0.5	2	23	31	3.20	10	1
DUP		<0.2	3.16	11	<10	20	<0.5	<2	0.10	<0.5	2	24	31	3.14	10	<1
Target Range - Lower Bound		<0.2	3.03	8	<10	<10	<0.5	<2	0.08	<0.5	<1	21	29	3.00	<10	<1
Upper Bound		0.4	3.36	14	20	30	1.0	4	0.10	1.0	3	26	33	3.34	20	2



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: KIKAUKA, ANDRIS
 4199 HIGHWAY 101
 POWELL RIVER BC V8A 0C7

Page: 2 - B
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
 Finalized Date: 21-MAR-2020
 Account: KIKAND

Project: Nahmint

QC CERTIFICATE OF ANALYSIS VA20050462

Sample Description	Method Analyte Units LOD	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %
STANDARDS																
CDN-CM-34		1.19	10	2.57	303	263	0.12	225	1150	20	2.90	6	9	101	<20	0.17
Target Range - Lower Bound		1.06	<10	2.27	269	245	0.08	204	1050	18	2.70	<2	8	92	<20	0.15
Upper Bound		1.32	30	2.80	340	301	0.13	252	1310	28	3.32	9	13	115	40	0.21
EMOG-17		0.66	20	0.80	650	1060	0.18	7650	770	7160	3.05	661	4	52	<20	0.21
Target Range - Lower Bound		0.60	<10	0.69	598	970	0.15	6930	680	6500	2.90	572	3	47	<20	0.18
Upper Bound		0.76	40	0.87	742	1190	0.20	8470	850	7950	3.56	778	7	59	50	0.25
OxJ47																
Target Range - Lower Bound																
Upper Bound																
PMP-18																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK		<0.01	<10	<0.01	<5	<1	0.02	<1	<10	<2	0.01	<2	<1	<1	<20	<0.01
Target Range - Lower Bound		<0.01	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<2	<1	<1	<20	<0.01
Upper Bound		0.02	20	0.02	10	2	0.02	2	20	4	0.02	4	2	2	40	0.02
DUPLICATES																
20CRS-5		0.02	10	0.11	61	1	0.03	8	770	27	0.09	<2	2	6	<20	0.10
DUP		0.02	10	0.12	67	1	0.03	8	790	26	0.09	<2	2	7	<20	0.11
Target Range - Lower Bound		<0.01	<10	0.10	56	<1	0.02	7	730	23	0.08	<2	<1	5	<20	0.09
Upper Bound		0.03	20	0.13	72	2	0.04	9	830	30	0.10	4	3	8	40	0.12



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: KIKAUKA, ANDRIS
 4199 HIGHWAY 101
 POWELL RIVER BC V8A 0C7

Page: 2 - C
 Total # Pages: 2 (A - C)
 Plus Appendix Pages
 Finalized Date: 21-MAR-2020
 Account: KIKAND

Project: Nahmint

QC CERTIFICATE OF ANALYSIS VA20050462

Sample Description	Method Analyte Units LOD	ME-ICP41 Tl ppm	ME-ICP41 U ppm	ME-ICP41 V ppm	ME-ICP41 W ppm	ME-ICP41 Zn ppm	Au-OG43 Au ppm
		10	10	1	10	2	0.01
STANDARDS							
CDN-CM-34		<10	<10	103	10	180	
Target Range - Lower Bound		<10	<10	95	<10	159	
Upper Bound		20	20	118	30	199	
EMOG-17		<10	<10	63	<10	7330	
Target Range - Lower Bound		<10	<10	58	<10	6780	
Upper Bound		20	20	74	20	8290	
OxJ47						2.42	
Target Range - Lower Bound						2.02	
Upper Bound						2.75	
PMP-18						0.29	
Target Range - Lower Bound						0.25	
Upper Bound						0.36	
BLANKS							
BLANK						<0.01	
Target Range - Lower Bound						<0.01	
Upper Bound						0.02	
BLANK		<10	<10	<1	<10	<2	
Target Range - Lower Bound		<10	<10	<1	<10	<2	
Upper Bound		20	20	2	20	4	
DUPLICATES							
20CRS-5		<10	<10	64	<10	27	
DUP		<10	<10	66	<10	29	
Target Range - Lower Bound		<10	<10	61	<10	25	
Upper Bound		20	20	69	20	31	



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: KIKAUKA, ANDRIS
4199 HIGHWAY 101
POWELL RIVER BC V8A 0C7

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 21-MAR-2020
Account: KIKAND

Project: Nahmint

QC CERTIFICATE OF ANALYSIS VA20050462

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.		
	Au-OG43	DISP-01	LOG-22
	SCR-41	WEI-21	ME-ICP41

Appendix 2

Sample Locations and Descriptions

(Stewart Jackson PhD, P.Geol)

Stream Sediment Samples

Sample ID	UTM E	UTM N	Bedrock lithology	Alteration	Min'n
20NM-1	356710	542768 4	basalt (Mid-Upper Triassic Karmutsen Fm)	pyrolusite, limonite (0.3%)	pyrite, magnetite (trace)
20NM-2	357187	542786 3	basalt (Mid-Upper Triassic Karmutsen Fm)	pyrolusite, limonite (trace)	pyrite, magnetite (0.2%)
20NM-3	359228	542737 5	granodiorite (Early-Mid Jurassic Island Suite)	limonite (0.3%)	magnetite
20NM-4	359893	542743 5	granodiorite (Early-Mid Jurassic Island Suite)	quartz	magnetite
20NM-5	360861	542827 5	basalt (Mid-Upper Triassic Karmutsen Fm)	calcite amygdules	pyrite, magnetite (trace)
20NM-6	361310	542909 1	granodiorite (Early-Mid Jurassic Island Suite)	quartz	pyrite
20NM-7	361909	542980 4	basalt (Mid-Upper Triassic Karmutsen Fm)	pyrolusite, limonite (trace)	pyrite, chalcopyri te (trace)
20NM-8	362315	543007 8	basalt (Mid-Upper Triassic Karmutsen Fm)	pyrolusite, limonite (trace)	pyrite, chalcopyri te (trace)

Rock Samples

Sample ID	MTO tenure	Easting NAD 83	Northing NAD 83	Sample Type	Lithology	Alteration	Min'n
20NMR-11	107472 1	361915	5429809	outcrop	basalt	quartz, chlorite, calcite, limonite,	pyrite
20NMR-12	107472 1	362328	5430081	outcrop	basalt	quartz, chlorite, calcite, limonite,	pyrite

Appendix 3

Photos

