

Ministry of Energy and Mines  
BC Geological Survey

Assessment Report  
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: 2020 Assessment Report - Geological / Prospecting

TOTAL COST: 12888.22

AUTHOR(S): S Dorion

SIGNATURE(S): S Dorion

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): n/a

YEAR OF WORK: 2020

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5832734

PROPERTY NAME: X

CLAIM NAME(S) (on which the work was done): X - 1073898

COMMODITIES SOUGHT: Copper

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092P031

MINING DIVISION: Clinton

NTS/BCGS: 92P/03

LATITUDE: 51 ° 13 '50 " LONGITUDE: 121 ° 3 '17 " (at centre of work)

OWNER(S):

1) Strata GeoData Services (aka SGDS Hive)

2)

MAILING ADDRESS:

330 - 470 Granville Street, Vancouver, BC, V6C 1V4

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

1) As above

2)

MAILING ADDRESS:

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

Nicola Group Volcanics, X, Copper, Gold, Triassic, Miocene, Vidette, Basalt, Epithermal, Low Sulphidation, Porphyry

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
<b>Ground, mapping</b>		1073898	10500
<b>Photo interpretation</b>			
<b>GEOPHYSICAL (line-kilometres)</b>			
<b>Ground</b>			
<b>Magnetic</b>			
<b>Electromagnetic</b>			
<b>Induced Polarization</b>			
<b>Radiometric</b>			
<b>Seismic</b>			
<b>Other</b>			
<b>Airborne</b>			
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
<b>Soil</b>			
<b>Silt</b>			
<b>Rock</b>		1073898	222.12
<b>Other</b>			
<b>DRILLING (total metres; number of holes, size)</b>			
<b>Core</b>			
<b>Non-core</b>			
<b>RELATED TECHNICAL</b>			
<b>Sampling/assaying</b>			
<b>Petrographic</b>			
<b>Mineralographic</b>			
<b>Metallurgic</b>			
<b>PROSPECTING (scale, area)</b>			
<b>PREPARATORY / PHYSICAL</b>			
<b>Line/grid (kilometres)</b>			
<b>Topographic/Photogrammetric (scale, area)</b>			
<b>Legal surveys (scale, area)</b>			
<b>Road, local access (kilometres)/trail</b>			
<b>Trench (metres)</b>			
<b>Underground dev. (metres)</b>			
<b>Other</b>		1073898	2166.10
		<b>TOTAL COST:</b>	12888.22

# 2020 Assessment Report describing Geological and Geochemical Surveys at the X Property, British Columbia

Report Year: 2020

**CLAIM NAMES:** X

**COMMODITIES SOUGHT:** Copper

**MINERAL INVENTORY MINFILE NUMBERS:** 092P031

**MINING DIVISION:** Clinton

**NTS / BCGS:** 92P/03

**LATITUDE:** 51° 13' 50"

**LONGITUDE:** 121° 3' 17"

**UTM Zone:** NAD83 10 **EASTING:** 635820 **NORTHING:** 5677303

**OWNER:** Strata GeoData Services ("SGDS Hive")

Suite 330, 470 Granville Street  
Vancouver, British Columbia, V6C 1V5

**PREPARED BY:** Scott Dorion P.Ge

SGDS Hive  
330 – 470 Granville Street  
Vancouver, British Columbia, V6C 1V5

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## 1.0 INTRODUCTION

The X Property (the “Property”), tenure number 1073898, was staked by SGDS Hive on January 15th, 2020. One mineral showing, the ‘X Claim Group’ (092P 031), occurs in the northeastern section of the Property. The historical producing Vidette (092P 086) gold mine is located 15 kilometres southeast of the Property.

On May 29th, 2020, a 4-person crew completed a single day reconnaissance on the Property which returned a total of 9 geological observations and 1 grab sample retrieved (note that this sample was subsequently lost by the lab). On August 10th, 2020, a follow-up reconnaissance was completed with a team of 2 which returned 3 select grab samples. A Property visit during a qualified professional (“QP”) site tour, a requirement for the 2020 NI 43-101 Technical Report (Davison, 2020), was completed on September 5th, 2020. During the QP site tour a total of 3 select grab samples from the Property. An access reconnaissance was completed on October 18th, 2020, to determine new forest service road construction. Two select grab samples returned 0.59% and 2.01% Cu. A total of 15 geological observations and 7 select grab samples (with six reported) were retrieved during 2020 reconnaissance on the Property.

The Property is almost entirely hosted within the Quesnellia terrane, which divides into the Early Jurassic-aged Rayfield River pluton and Triassic-aged Nicola Group. A small section of Neogene to Pleistocene-aged Chilcotin Group along the southwestern margins of the Property’s boundary.

To date, the target zone on the Property is on the western side of the tenure with focus along the Triassic-aged ‘Greentstone’ contact (Nicola Group), outcropping between the younger Rayfield River Pluton and Chilcotin Group. Work recommendations for 2021 include ground-based geophysical surveys, geological mapping, and infill geochemical surveys along the Greenstone corridor. A \$50,000 budget is recommended for respective work program on the Property.

## 2.0 PROPERTY DESCRIPTION AND LOCATION

The Property is located within NTS map sheet 92P/03 and is centered at a longitude and latitude of 121°3'17" W / 51°13'50" N or a UTM of 635820E / 5677303N (NAD83 Zone 10). The nearest town, 70 Mile House, British Columbia, is a 23-kilometre beeline to the west-northwest.

The Property is accessible from several routes leading off major highways, with the most practical being the Cariboo Highway turnoff onto the Chasm Road. Another useful route depending on approach is the Highway 1 turnoff onto the Deadman Vidette Road. Secondary routes off Chasm Main lead into the Property. The Property's location and practical access is displayed in Figure 1.

The Property is on the unceded indigenous territory of Secwepemcúl'ecw (Secwépemc) peoples. SGDS Hive recognizes the inherent rights and title of Secwepemcúl'ecw (Secwépemc) peoples and is committed to engaging in meaningful ways through all phases of exploration and regulatory processes as the Property advances. SGDS Hive wishes to build positive lasting relationships with the First Nations that have an expressed interest in the area defining the Property.

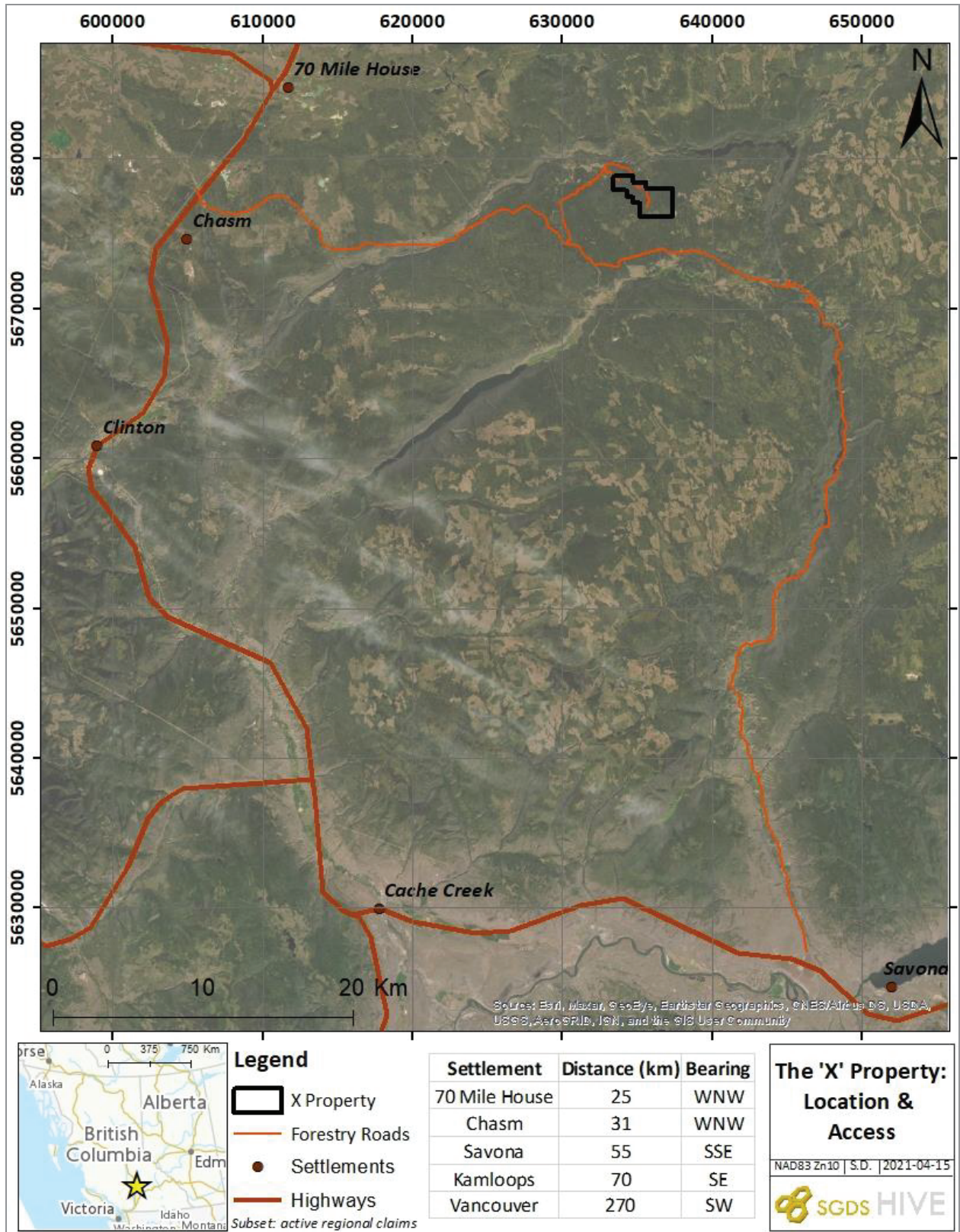


Figure 1: Location of X Property



The Property consists of one claim totalling 627 hectares (ha). The X claims were staked by SGDS Hive using British Columbia's Mineral Titles Online ("MTO") system and are owned 100%.

<b>Tenure Number</b>	<b>Claim Name</b>	<b>Owner</b>	<b>Issue Date</b>	<b>Good to Date</b>	<b>Area (ha)</b>
1073898	X	100% SGDS Hive	15 <sup>th</sup> January 2020	30 <sup>th</sup> December 2022	627

***Table 1: Claim Details***

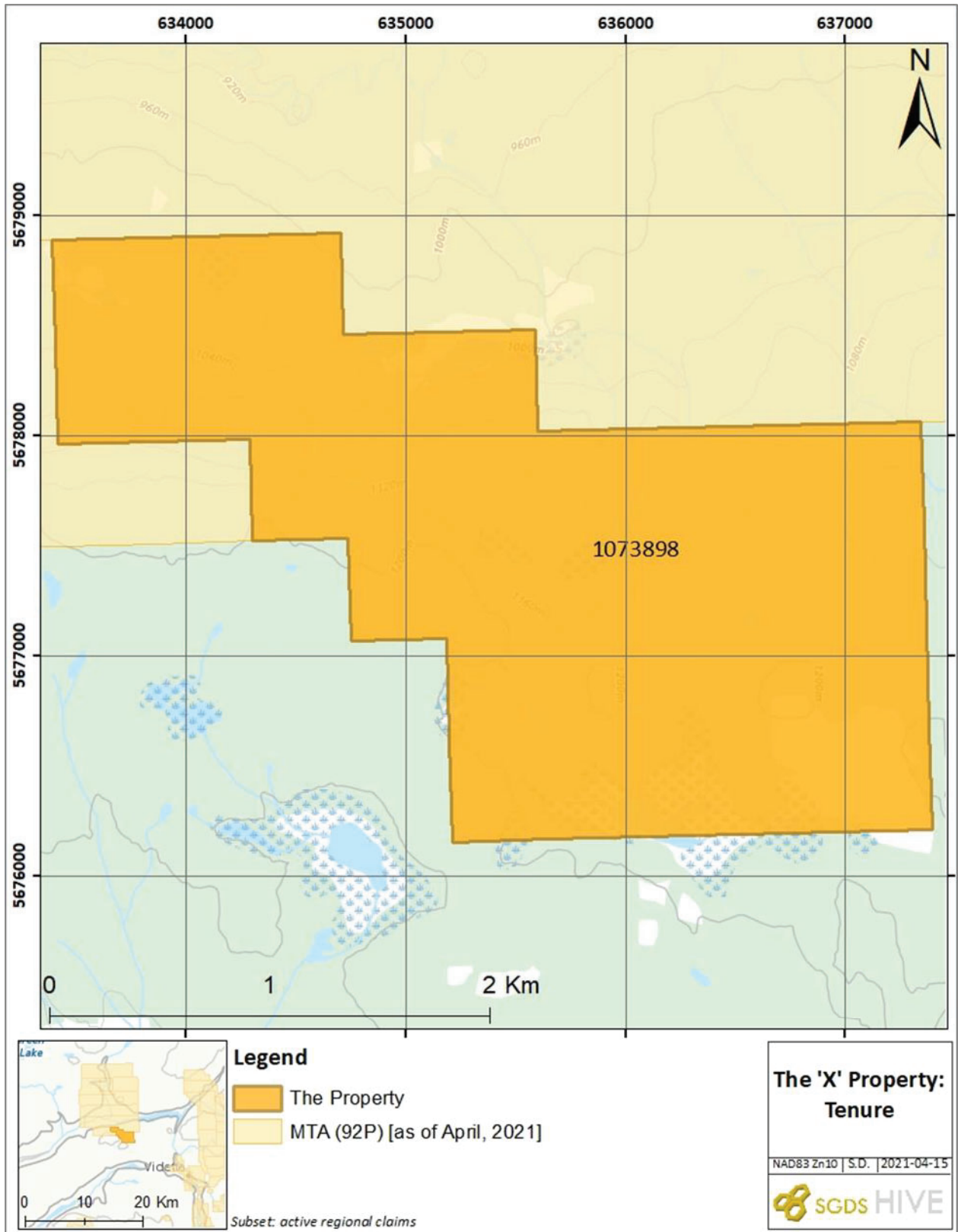


Figure 2: X Tenure

### 3.0 HISTORY

Table 2 (BCEMPR, years) displays all documented work in the immediate area which is associated with the current Property shape.

Year	Company & 'Property Name'	Work Program <i>[within the current Property boundary]</i>
1991	Joel Thomlison 'X Property'	13.25 kilometres of line chaining; 50 channels; 78 rocks; 188 soils (Thomlinson, 1991). <i>[Grid #2]</i>
2007	Candorado Operating Company Ltd.; Al Harvey 'Rayfield River Project'	409-line kilometres of airborne geophysical survey (Koffyberg, [Assessment Report #29110] Assessment Report on the Airborne Gamma-ray Spectrometric and Magnetic Surveys, Rayfield River Property, 2007). <i>[177 hectares of survey]</i>
		742 soils, 2 rock grabs, 5 petrographic samples, prospecting airborne (2007) geophysical survey targets (Koffyberg, [Assessment Report #294538] Assessment Report on the Geochemical Soil Survey and Prospecting-Rock Sampling Program, Rayfield River Property, 2007) <i>[R07 sampling]</i>
2008	Candorado Operating Company Ltd.; Al Harvey; Callinan Mines Ltd. 'Rayfield River Project'	1584.2 metres over 7 drillholes of NTW-sized diamond drilling <i>[Drillhole 784-001]</i>

**Table 2: A summary of the Property's local exploration history.**

Koffyberg (2007) mentions the local area surrounding the Property had been staked numerous times and explored since the 1950s.

First documented work within the Property's current boundaries occurred in 1991 where J. Thomlinson completed a 39-day work program which included geochemical sampling, hand trenching, line chaining, and prospecting on the bygone 'X Property' tenure (Thomlinson, 1991). The 1991 'X Property' was defined by 5 claims, 'X 4' to 'X 8', totalling 67 units, which were staked between April 16th and April 27th of 1990. Thomlinson (1991) notes that no previous information was available on the X claims. Two grids and one traverse line were part of the geochemical survey. As it pertains to the Property, only Grid 2 is reviewed in this report, which consisted of 139 soil samples (100 metre-spacing, 5 kilometres of grid lines) and 55 rock samples. Rock

samples from Grid 2 returned up to 0.223% Cu and 2.8g/t Au (Thomlinson, 1991).

Thomlinson (1991), using a pick and shovel, completed hand trenching and subsequent channel sampling within Grid 2. Channel sample stations are described as being 5 centimetres wide and deep, termed 'Mini Baseline C' and 'Mini Baseline D'. Mini Baseline C, a 54-metre continuous channel, returned a total of 29 samples where values ranged from 11 to 348ppm Cu. Mini Baseline D, a 21-metre continuous channel, returned a total of 21 samples where all values ranged from 20 to 214ppm Cu.

Thomlinson (1991) successfully identified a small zone of elevated copper and gold on Claim 'X7' (Grid 2). The 1991 sample stations and anomalous zones within X7 are displayed in Figure 3 and Figure 4, respectively.

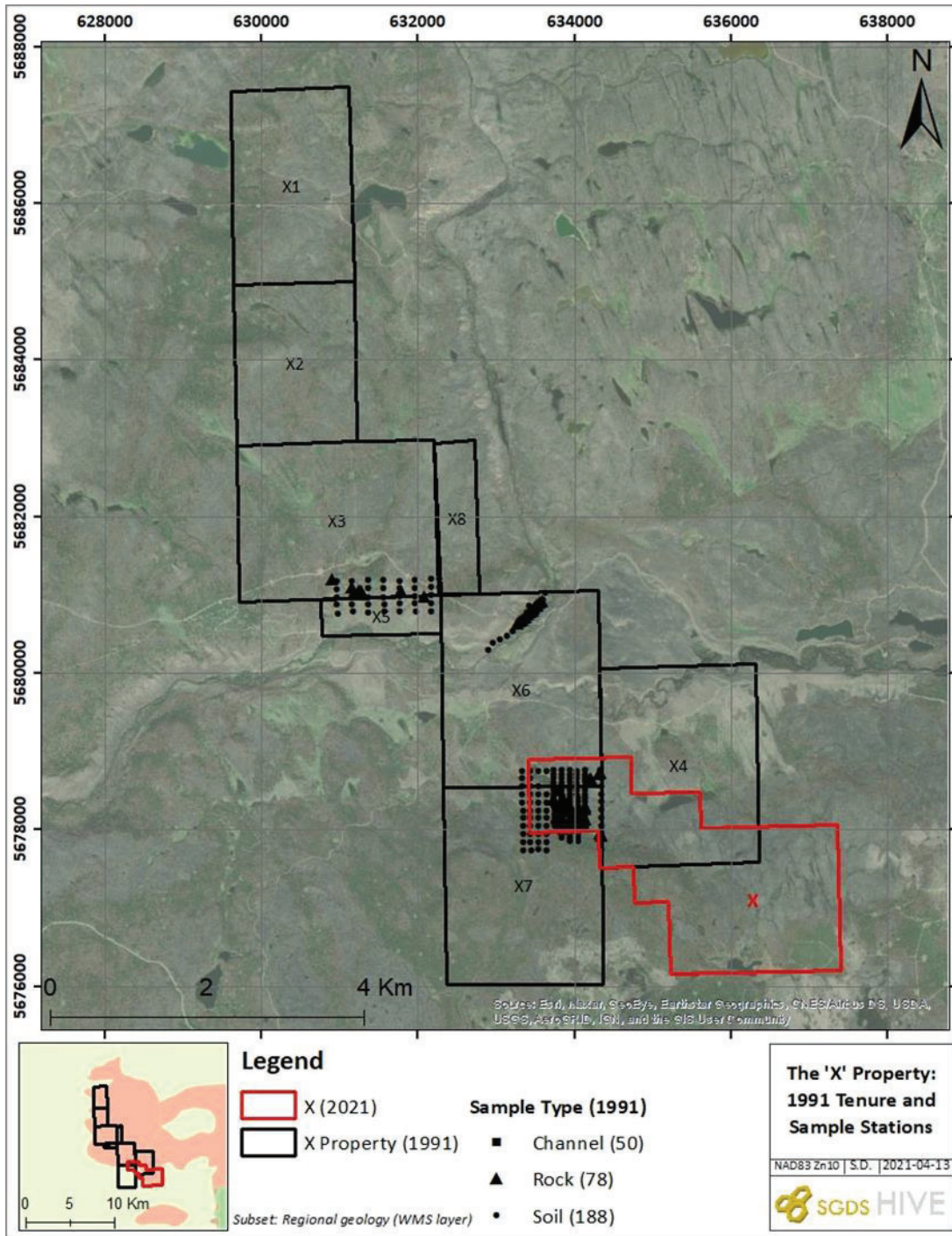
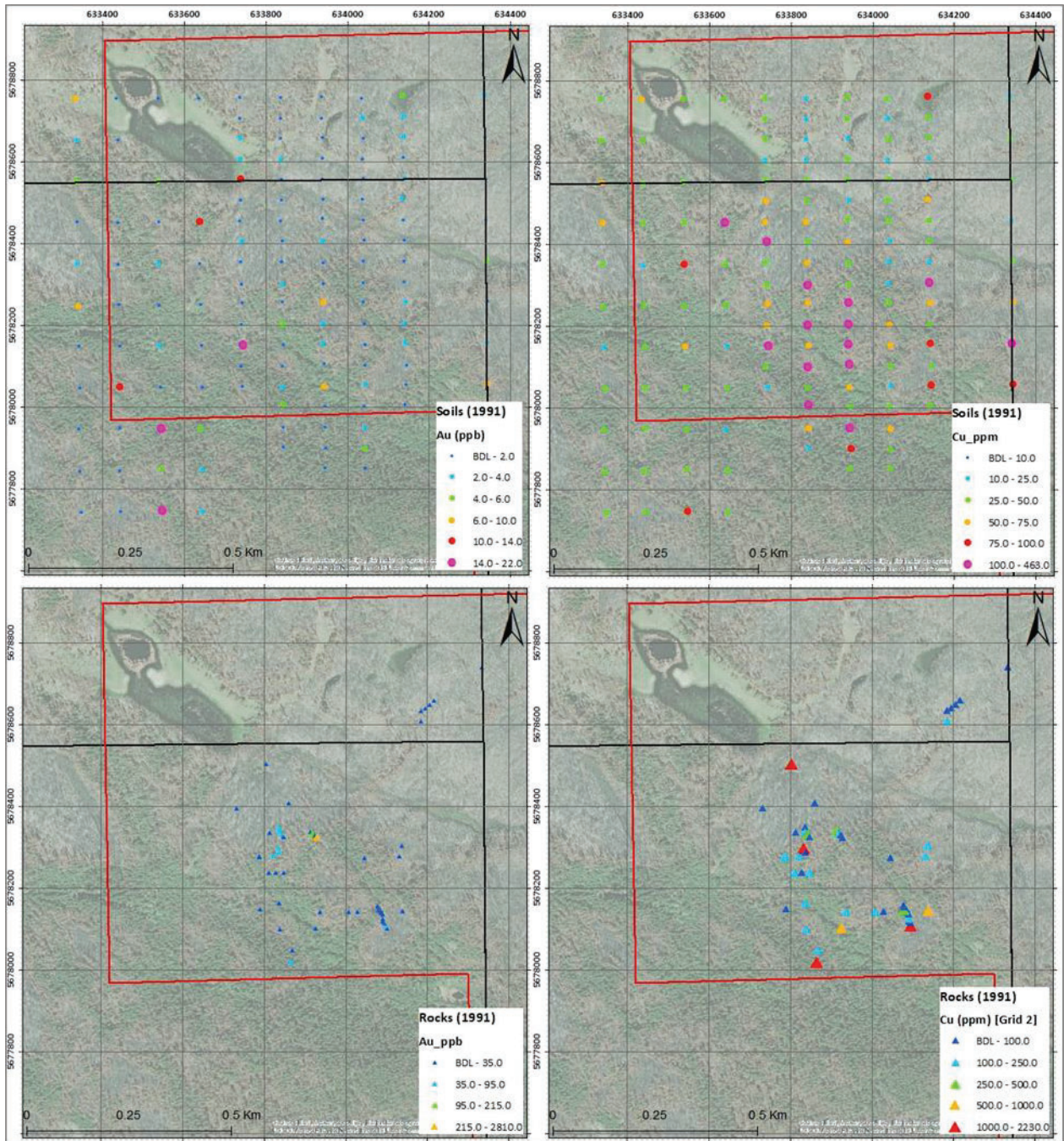


Figure 3: 1991 'X Property' tenure and sample stations (Thomlinson, 1991).



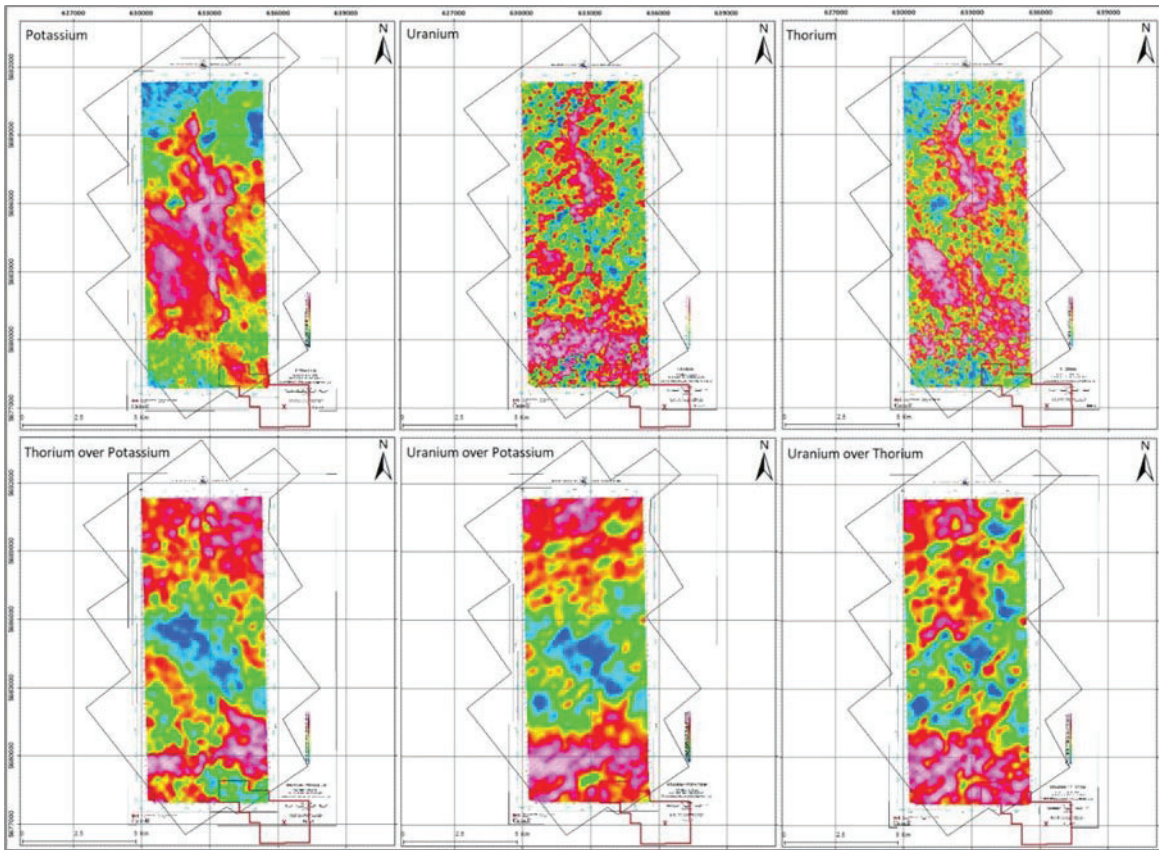
**Figure 4: Grid 2 Au-Cu compilation (modified from Thomlinson, 1991). Property outlines as per Figure 3.**

In 2006, the Rayfield River Property was formed by Candorado Operating Company Ltd. (“Candorado”) and A. Harvey which overlaps with the current Property boundary.

As it pertains to the Property, only Grid R07 and airborne geophysical target areas 06-6 and R-7 will be reviewed. Target R-7, one of the priority targets selected for follow-up exploration, was described by Koffyberg (2007) as:

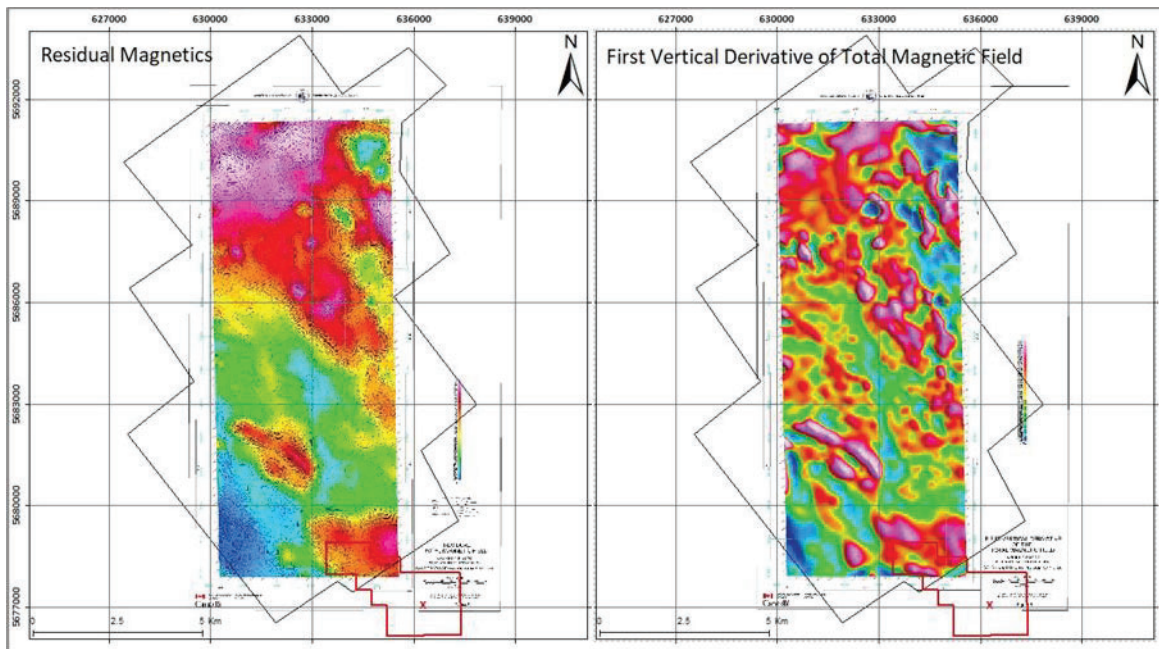
*“The target is accessed from the 3400 FSR that runs east from Chasm, and the Mount Grant road. The terrane is composed of rolling hills with dense to open tree cover. Target R-7 is located close to outcroppings of meta-volcanics and sediments, thought to be the Nicola Group, and sub-outcrops/large boulders of hornblende syenite. Approximately 200 metres to the northwest is a large outcrop of gabbro with veins of potassium feldspar, quartz and disseminated hornblende and epidote. Approximately 1.5 kilometres northwest (prelim target 06-6) is a large hill composed of potassium feldspar phyric hornblende-biotite syenite with grain sizes that range from coarse to pegmatitic. The outcrop did contain some potassic alteration, but the majority of potassium was primary... Target R-7 had moderate copper geochemical values within the soil samples. However, outcrop within the area contains minor to no potassic alteration or copper mineralization. Outcrop consists predominately of amphibolized syenites and diorites, which is likely the explanation of the airborne geophysical signature.”*

Figure 5 and Figure 6 display the results of the 2006 airborne geophysical survey (Koffyberg, 2007) with reference to the current Property outline on the southeastern corner.



**Figure 5: Gamma-ray Spectrometric compilation from 2007 airborne geophysical survey (Koffyberg, [Assessment Report #29110] Assessment Report on the Airborne Gamma-ray Spectrometric and Magnetic Surveys, Rayfield River Property, 2007).**





**Figure 6: Magnetic compilation from 2007 airborne geophysical survey (Koffyberg, [Assessment Report #29110] Assessment Report on the Airborne Gamma-ray Spectrometric and Magnetic Surveys, Rayfield River Property, 2007).**

Candorado and A. Harvey entered into an option agreement with Callinan Mines Ltd. (“Callinan”) in November of 2007 on twenty-six of the Rayfield River Property mineral tenures. Callinan completed 1,584.2 metres of diamond drilling where one of the 7 drillholes, 784-001, was completed within the present-day Property boundary. 784-001 was targeted based on the potassium signature from the airborne geophysical survey (target ‘2006-06’; Koffyberg, 2007). The vertical, 258 metre drillhole was planned based off the potassium signature generated from the 2007 airborne survey. Koffyberg (2008) describes the drillhole as predominantly fine-grained diorite, grey to green-grey, and containing up to 15-20% magnetite, with the lithology alternating with a fine to medium grained, orange to tan hornblende syenite unit. Hornblende was observed to be partially altered to chlorite and biotite content increases at depth. The diorite is associated with local pervasive alteration (silicified, bleaching, chlorite, epidote). From 209 to the end of hole, the diorite is brecciated with strong, pervasive epidote and chlorite replacement in both the matrix and clasts. Within the syenite, a 3.2 metre interval returned 0.11% Cu at a depth of 92.1 metres

(Koffyberg, 2008). Figure 7 displays the collar and section information for 784-001.

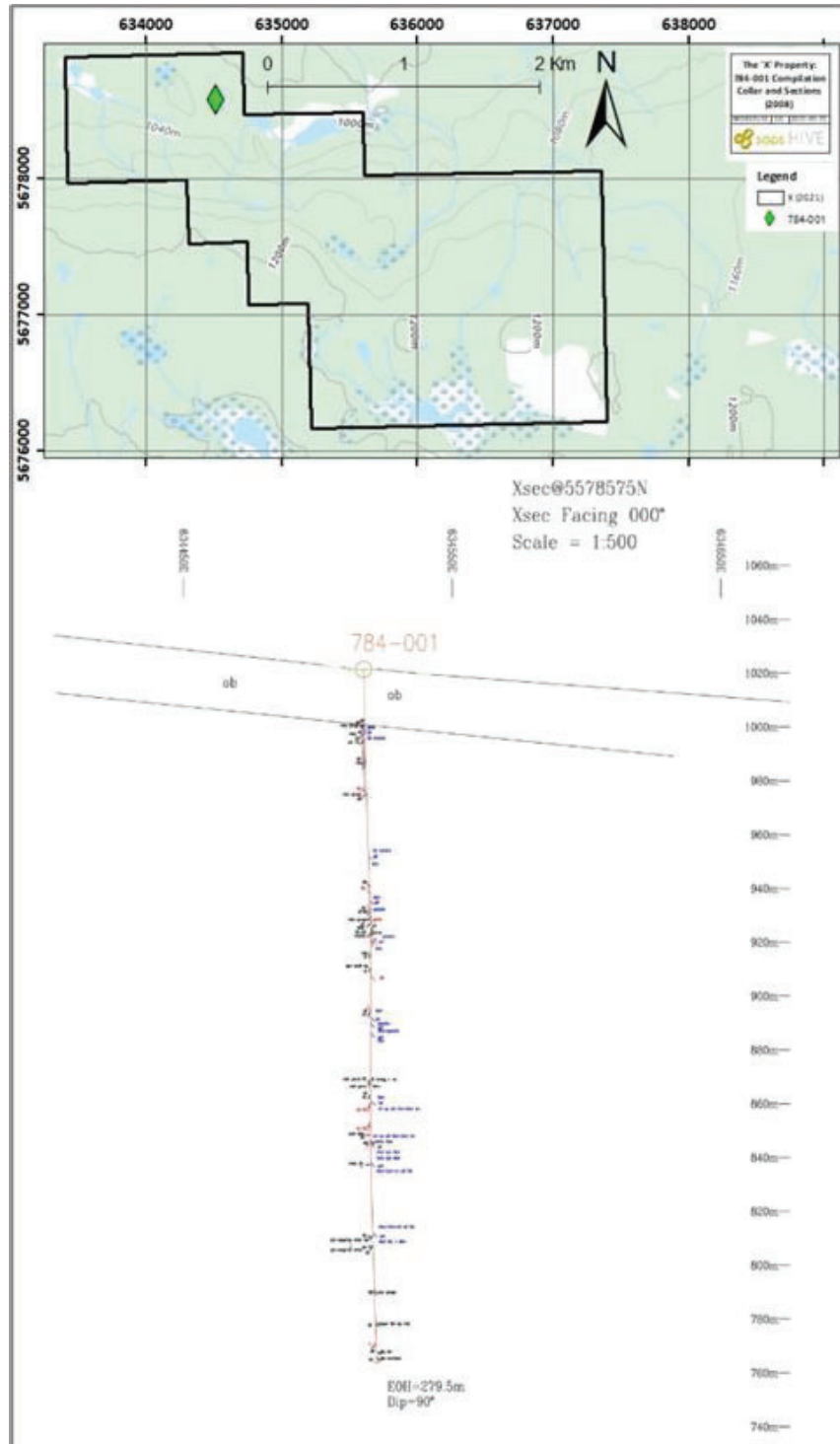


Figure 7: 2008 drillhole '784-001' collar and geological section (modified from Koffyberg, 2008).

## **4.0 GEOLOGICAL SETTING AND MINERALIZATION**

### **4.1 Regional Geology**

The Property, 75 kilometres east of the Fraser River Fault, is hosted completely in the Intermontane Belt. The Intermontane belt began forming in the early Jurassic period when the 245-million-year-old island arc (Intermontane Islands) collided against the pre-existing continental margin (Burke, 2019).

The Intermontane Belt includes the Younger Volcanics, Post Accretionary, Overlap, Cache Creek, and Quesnellia terranes – as shown in Figure 8.

Respective to the Property, Younger Volcanic generally surround the area, a Miocene to Pleistocene-aged terrane, which includes both basaltic volcanic and coarse clastic sedimentary rocks. The Post Accretionary terrane, a mid-late Jurassic, is exposed as close as 1.5 kilometres to the east of the Property.

The Property itself is almost entirely hosted in the Quesnellia terrane, a Triassic to Jurassic-aged volcanic arc, with the little remaining area defined by the Younger Volcanics and is further described the following section of this report.

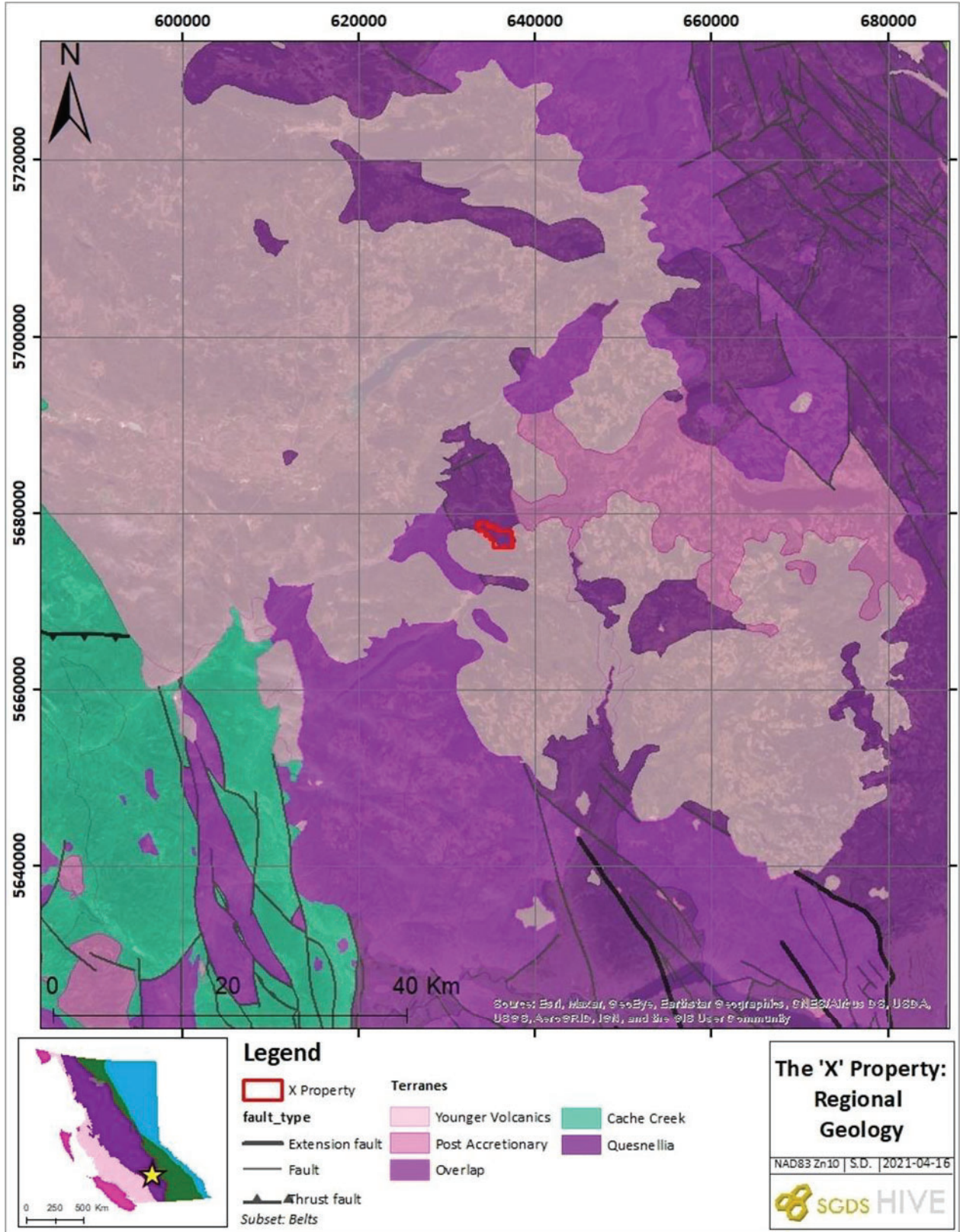


Figure 8: Regional geology (1:500,000).

## 4.2 Property Geology

The Property is almost entirely hosted within the Quesnellia terrane, which divides into the Rayfield River pluton and Nicola Group. The Early Jurassic-aged Rayfield River pluton (EJRRsy) is described as a hornblende syenite. The Triassic-aged Nicola Group (uTrNsv) unit includes volcanic sandstone, conglomeratic sandstone, siltstone, basalt, and basalt breccia, which includes local limestone, slate, felsic tuff, conglomerate, and chert. The small section of Younger Volcanics in the southwest section is further defined as Neogene to Pleistocene-aged Chilcotin Group. The Chilcotin Group is described as olivine basalt flows; minor interflow breccia and pillow breccias; locally includes gabbro, conglomerate, sandstone, siltstone, and diatomite (Logan & Schiarizza, 2014).

To date (Thomlinson, 1991; Koffyberg, 2007; 2008; Davison, 2020) have observed the targeted Cu-mineralization to consist of chalcopyrite, bornite, and chalcocite. The mineralization occurring as disseminated, fracture-fill, and veinlets. Copper oxides are also abundant, primarily as malachite and cuprite. Malachite occurs on feldspar veinlets, on fractures and as disseminations replacing mafic minerals (Koffyberg, 2008). Native copper has also been recorded (Koffyberg, 2008). Davison (2020) tentatively identified copper silicates, such as chrysocolla, associated with the copper oxides and carbonates.

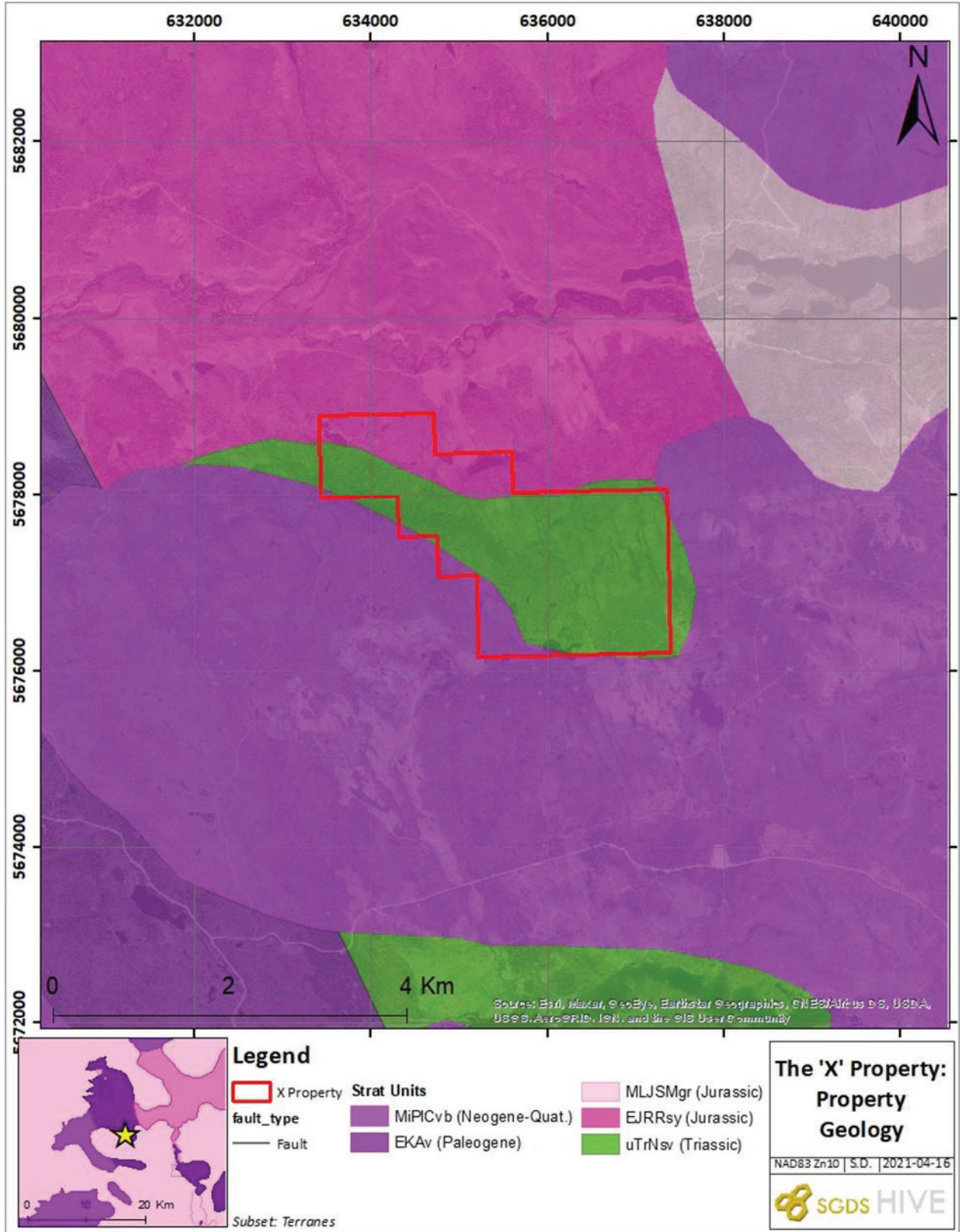
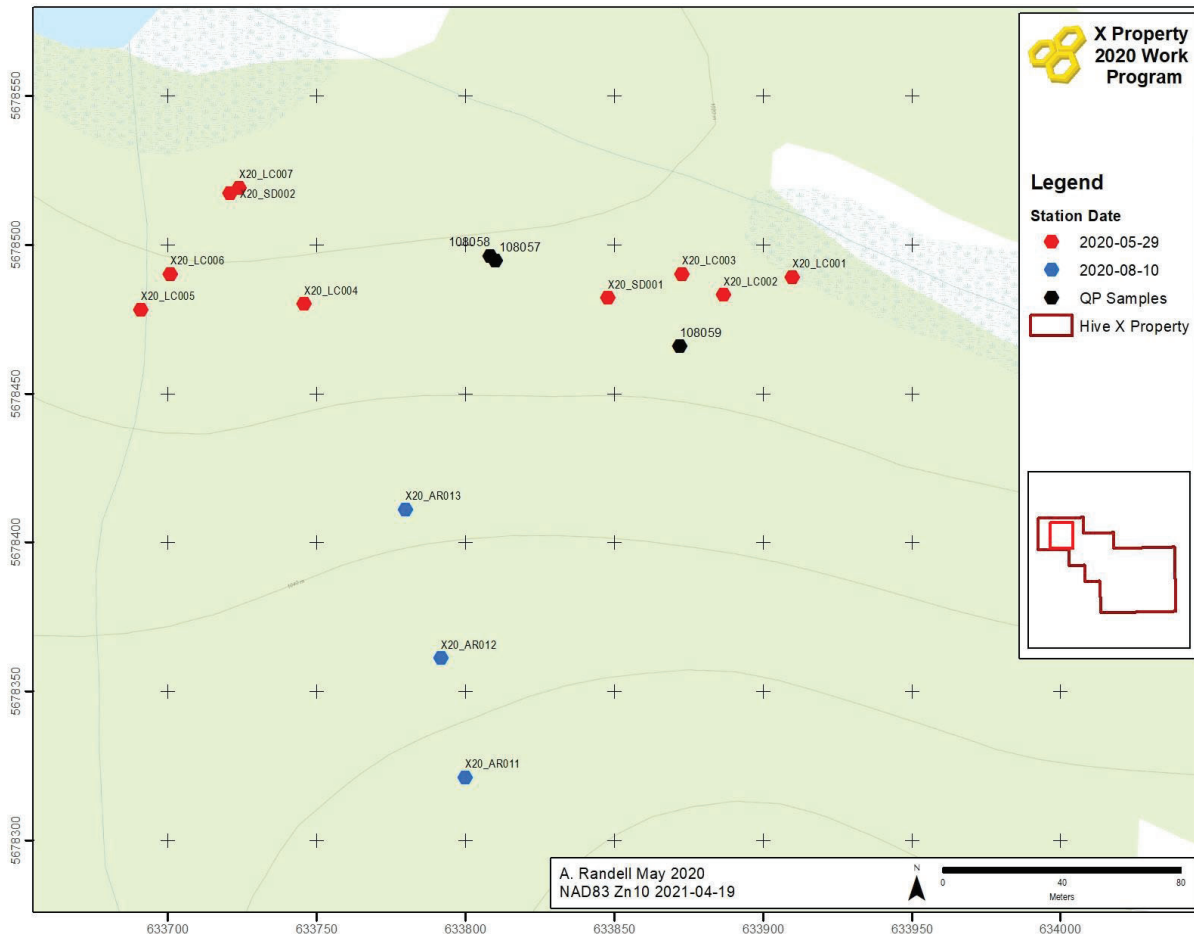


Figure 9: Property geology (1:50,000).

## 5.0 EXPLORATION

A total of 15 geological observations which includes 7 select grab samples were taken over 9 person-days on the Property during the 2020 field season, displayed in Figure 10. All the reported work was completed in the northwestern section of the Property.



**Figure 10: 2020 geological observation and select rock grab stations.**

Reconnaissance was planned based off historical targets and anomalous zones. Notable observations, such as physical outcrops or structural measurements, were sketched on a mylar clipboard. Observation and sample stations were located using a Garmin 64st GPS unit, exported using ExpertGPS, and digitized into Microsoft Excel and ESRI ArcGIS.

The Property is generally in low gradient slopes and characterized by vegetation cover and

swamps, where outcrops are restricted to roadcuts, fallen or uplifted trees, and rare in-situ exposures.

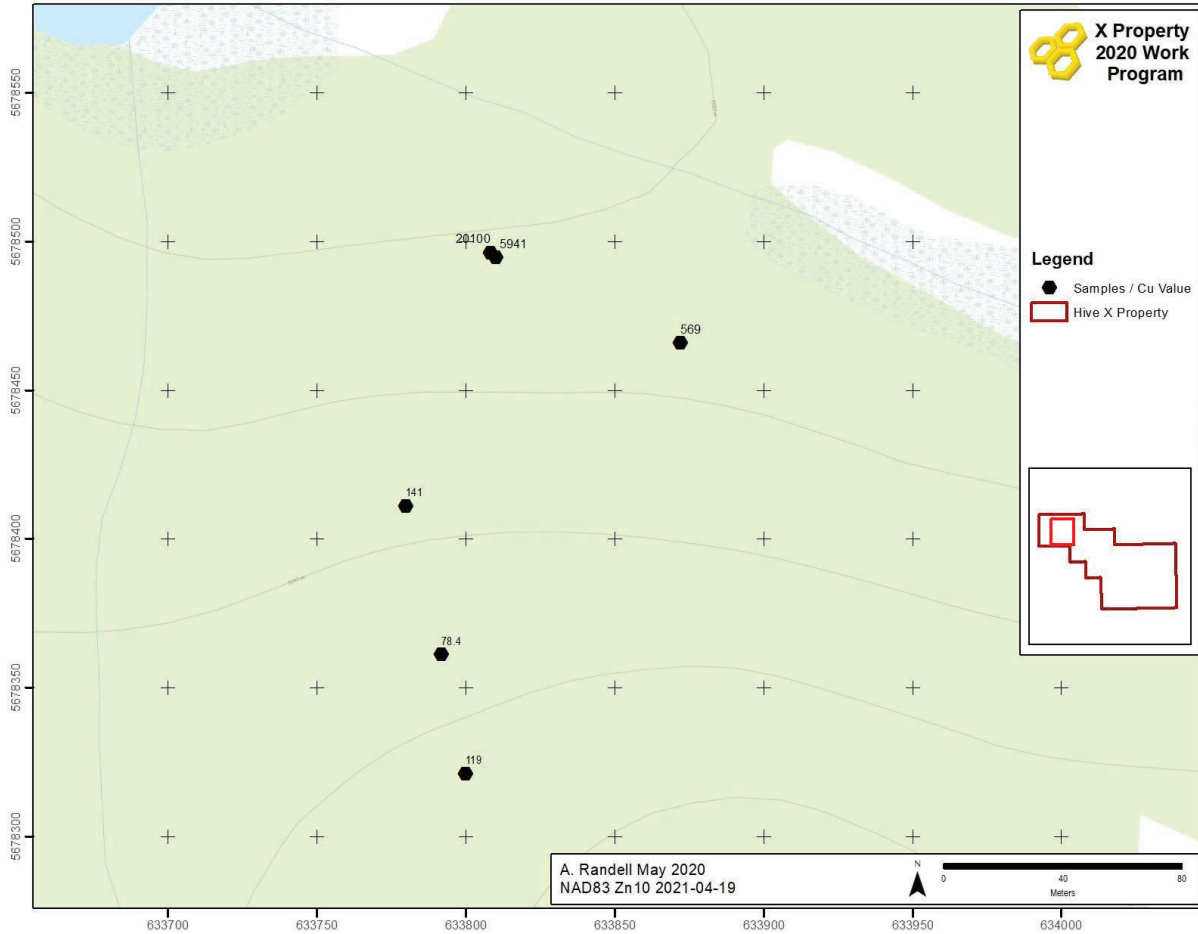
Field stations refer to any observation a field personnel regarded as worth noting with context to geology. Stations range from outcropping lithology types and structural measurements to notable changes in the immediate area (anthropogenic, physiography).

Select grab samples were retrieved during geological reconnaissance (prospecting) and chosen based on observable lithology, mineralization, structure, and/or alteration. Types of select grab samples are based on the proximity to the source (float, subcrop, outcrop).

Lithologies observed include granodiorite, syenite, siliceous tuff, tuffaceous sandstone, chert, and crystal tuff ± hornfels. Intrusive rocks were observed to usually be typical 'salt and pepper' biotite to amphibole-rich, equigranular, magnetic, and foliated. The other listed lithologies were quartz-rich and described as mid- to dark grey. K-feldspar veining was observed at several localities (X20\_LC001, X20\_LC003, X20\_LC006, X20\_SD001). Minor chlorite-epidote alteration was observed (X20-LC004) with several localities of 2-10% hematite (X20\_LC004-X20LC007). 'Sub-schist' (X20\_SD002, syenite) describes the intensity of observed foliation at some stations. In general, the foliation is observed to be weak to moderate throughout the Property and is vertically orientated 268°. Two dominant joint sets were observed (syenites and granodiorites) were 276°/54° and 352°/80°. Sulphide-bearing veining observed to be hosted in E-W orientated structures.

Figure 11 displays the 2020 reconnaissance results. Six of the seven select rock grabs returned copper values: 78.4, 119, 141, 569, 5,941, and 20,100ppm copper, although sample D00026963 was misplaced by the lab. Pathfinder elements correlated (R2) with copper include silver (0.96), lead (0.90), arsenic (0.84), bismuth (0.84), and gold (0.78).





**Figure 11: 2020 rock sample assays (copper)**

## 6.0 DRILLING

No drilling took place on the Anita property in 2019.

## 7.0 SAMPLE PREPARATION, ANALYSES AND SECURITY

The 2019 rock samples were collected using a hammer from outcrops, talus, or boulders. All samples were located using a standard Garmin GPS handheld unit and cataloged using a 'Rite in

the Rain' bound book, and later digitized into Microsoft Excel. All samples were shipped to SGS Laboratories ("SGS") in Burnaby, British Columbia. A 1:10 QAQC control to sampling was used for the 2020 geochemical surveys.

The reader is referred to the appendix section for further information on QA/QC samples and SGS analysis. A full description of each lab method can be found on SGS's Geochemistry Guide (SGS, 2020).

Wearing proper PPE for the sampling, a standard rock hammer was used to chip at sample stations. The samples were collected as select grab samples, large fragments of homogenous material at the specific location. Unique sample tags were issued to each individual sample, bagged in medium-sized polyurethane bags, and zip-tied at the sample location site.

## **8.0 ENVIRONMENTAL STUDIES, PERMITTING AND SOCIAL OR COMMUNITY IMPACT**

No studies were completed during 2020 owing to this being a prospecting exercise which would determine ongoing commitments at the property.

## **9.0 INTERPRETATION AND CONCLUSIONS**

Geological observations complement with government-mapped descriptions for Rayfield River Pluton and Nicola Group lithology rocks (Logan & Schiarizza, 2014).

Davison (2020) suggest favourable conditions for Cu-porphyry mineralization on the Property.

The author notes the possible link between successful Cu-porphyry style mineralization intervals observed in the Rayfield River Property (2008) and residual magnetics (2007). Hole 784-001, although a small interval of Cu-mineralization, reports 15-20% magnetite observed in the drillcore and may suggest a possible vector as the hole was initially targeted based off the potassium signature (Koffyberg, 2007;

2008). Thomilson's (1991) mapping suggests the Cu-anomalous 2020 select grab samples are hosted proximal to the Nicola Group-Rayfield River Pluton contact, which coincides with a 20-hectare sized, first derivative magnetic high structure.

2020 reconnaissance has confirmed Cu-mineralization on the Property, with samples #108057 and #108058 returning 0.59 and 2.01% Cu. Additional exploratory surveys are required to further delineate potential mineralizing structures on the Property, with gridded surface sampling (soils) on the Property's oldest "Greenstone" Nicola Group, exposed between the younger Rayfield River Pluton and Chilcotin Group.

## 10.0 RECOMMENDATIONS

Future work at X should focus on building up a better understanding of potential structural or intrusive hosts that exist below the cover of glacial till. This could be achieved by:

- Property-wide ground-based magnetometer geophysical survey.
- Greenstone gridded, 100-metre spaced soil sampling.
- Property-wide mapping and prospecting.

Davison (2020) further recommended a partial leach (SGH, MMI), biogeochemical ('tree bark'), and hand trench sampling surveys. The proposed recommendations would require an estimated budget of \$50,000.00.

## 11.0 REFERENCES

**BCEMPR. (2019). MINFILE Record Summary; MINFILE No 092P 031.** Victoria, B.C. : British Columbia Ministry of Energy, Mines and Petroleum Resources; British Columbia Geological Survey.

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[https://www.burkemuseum.org/geo\\_history\\_wa/The%20Omineca%20Episode.htm](https://www.burkemuseum.org/geo_history_wa/The%20Omineca%20Episode.htm)

**Davison, J. G. (2020).** Technical Report on the Vidette Lake Project: The X and Yard Claim Groups. Vancouver, B.C.: Kermode Resources Ltd.

**Koffyberg, A. (2007).** [Assessment Report #29110] Assessment Report on the Airborne Gamma-ray Spectrometric and Magnetic Surveys, Rayfield River Property. Owners: Candorado Operating Company Ltd. / Allen D. Harvey; Consultants: Discovery Consultants.

**Koffyberg, A. (2007).** [Assessment Report #294538] Assessment Report on the Geochemical Soil Survey and Prospecting-Rock Sampling Program, Rayfield River Property. Candorado Operating Company / Allen D. Harvey; Discovery Consultants.

**Koffyberg, A. (2008).** [Assessment Report #30271] Assessment Report on a Diamond Drill Program, Rayfield River Property. Owner: Candorado Operating Company Ltd.; Operator: Callinan Mines Ltd.

**Logan, J. M., & Schiarizza, P. (2014).** The Rayfield River pluton, south-central British Columbia (NTS 92P/6): Geologic setting and copper mineralization. Victoria, B.C.: British Columbia Ministry of Energy and Mines; British Columbia Geological Survey Paper 2014-1.

**SGS. (2020).** Geochemistry Guide 2020. SGS.

**Thomlinson, J. (1991).** [Assessment Report #21253] Assessment Report on Geochem Sampling, Trenching, Line chaining, and Prospecting on the X Property. Vancouver, B.C. : Joel Thomlinson.

# APPENDIX A

## Expenditures

Exploration Work type	Comment	Days		
Personnel (Name)* / Position	Field Days (list actual days)	Days	Rate	Subtotal*
Scott D	May 29 and 30	2	\$600.00	\$1,200.00
Liam C	May 29 and 30	2	\$500.00	\$1,000.00
Andy R	May 29 and 30	2	\$700.00	\$1,400.00
Jacob M	May 29 and 30	2	\$500.00	\$1,000.00
Andy R	9-Aug	1	\$700.00	\$700.00
Dave W	9-Aug	1	\$500.00	\$500.00
Andy R	August 28-30	1.5	\$700.00	\$1,050.00
Scott D	October 17-19	3	\$600.00	\$1,800.00
Jacob M12	October 17-19	3	\$500.00	\$1,500.00
				\$10,150.00
Geochemical Surveying	Number of Samples	No.	Rate	Subtotal
Rock	laboratory costs	6	\$37.02	\$222.12
				\$222.12
Transportation		No.	Rate	Subtotal
truck rental	Hive Truck	8.50	\$120.00	\$1,020.00
fuel		1.00	\$597.03	\$597.03
Other (rental truck)		3.00	\$98.33	\$294.99
				\$1,912.02
Accommodation & Food	Rates per day			
Hotel		1.00	\$37.50	\$37.50
Meals	Actual cost	1.00	\$246.58	\$246.58
				\$284.08
Miscellaneous				
Telephone		16.00	\$10.00	\$160.00
Ferry		1.00	\$107.40	\$107.40
				\$267.40
Equipment Rentals				
Field Gear (Specify)		16.00	\$10.00	\$160.00
				\$160.00
<b>TOTAL Expenditures</b>				<b>\$12,995.62</b>

NOTE: Total Applied Work Value = \$6,136.12, with \$6,748.44 balance credited to PAC

## APPENDIX B

### ASSAY CERTIFICATES

**NOTE:** *Lab certificate 'BBM20-04394' includes samples from SGDS Hive's 'Yard' property, the packaged Vidette Lake Project (Davison, 2020).*



**ANALYSIS REPORT BBM20-04016**

To COD SGS MINERALS - GEOCHEM VANCOUVER  
 SGDS HIVE - ANDY RANDELL  
 SGS CANADA INC  
 3260 PRODUCTION WAY  
 BURNABY V5A 4W4  
 BC  
 CANADA

Order Number	PO:	Date Received	12-Aug-2020
Project	SGDS Hive	Date Analysed	13-Aug-2020 - 26-Aug-2020
Submission Number	*BBY* SGDS HIVE/ X/ 3 Rocks	Date Completed	26-Aug-2020
Number of Samples	3	SGS Order Number	BBM20-04016

**Methods Summary**

Number of Sample	Method Code	Description
3	G_LOG	Sample Registration Fee
3	G_WGH_KG	Weight of samples received
3	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
3	GE_ICP40Q12	4 Acid Digest (HCL/HClO4/HF/HNO3), ICP, 0.2g-12ml

Authorised Signatory

**John Chiang**  
**Laboratory Operations**  
**Manager**

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO:  
 Project SGDS Hive  
 Submission Number \*BBY\* SGDS HIVE/ X/ 3 Rocks  
 Number of Samples 3

## ANALYSIS REPORT BBM20-04016

Element Method	Wtkg G_WGH_KG	@Au GE_FAA30V5	@Ag GE_ICP40Q12	@Al GE_ICP40Q12	@As GE_ICP40Q12	@Ba GE_ICP40Q12
Lower Limit	0.01	5	2	0.01	3	1
Upper Limit	--	10,000	100	15	10,000	10,000
Unit	kg	ppb	ppm m / m	%	ppm m / m	ppm m / m
D00026979	1.81	6	<2	9.48	<3	1245
D00026980	3.28	5	<2	9.01	<3	2639
D00026981	0.88	7	<2	8.65	<3	3112
*Rep D00026980	-	6	-	-	-	-
*Blk BLANK	-	7	-	-	-	-
*Std OXC145	-	222	-	-	-	-
*Blk BLANK	-	-	<2	<0.01	<3	<1
*Std OREAS 601	-	-	50	6.28	326	1503

Element Method	@Be GE_ICP40Q12	@Bi GE_ICP40Q12	@Ca GE_ICP40Q12	@Cd GE_ICP40Q12	@Co GE_ICP40Q12	@Cr GE_ICP40Q12
Lower Limit	0.5	5	0.01	1	1	1
Upper Limit	2,500	10,000	15	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	%	ppm m / m	ppm m / m	ppm m / m
D00026979	0.8	<5	3.53	<1	24	7
D00026980	0.9	<5	4.89	<1	13	27
D00026981	0.8	<5	5.05	<1	9	50
*Blk BLANK	<0.5	<5	<0.01	<1	<1	1
*Std OREAS 601	1.9	26	1.20	7	5	34

Element Method	@Cu GE_ICP40Q12	@Fe GE_ICP40Q12	@K GE_ICP40Q12	@La GE_ICP40Q12	@Li GE_ICP40Q12	@Mg GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	0.5	1	0.01
Upper Limit	10,000	15	15	10,000	10,000	15
Unit	ppm m / m	%	%	ppm m / m	ppm m / m	%
D00026979	119	6.18	3.36	10.1	19	2.87
D00026980	78.4	4.93	2.80	11.2	18	2.36
D00026981	141	4.30	3.73	11.6	4	1.44
*Blk BLANK	1.0	<0.01	<0.01	<0.5	<1	<0.01

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO:  
 Project SGDS Hive  
 Submission Number \*BBY\* SGDS HIVE/ X/ 3 Rocks  
 Number of Samples 3

## ANALYSIS REPORT BBM20-04016

Element	@Cu	@Fe	@K	@La	@Li	@Mg
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	0.5	1	0.01
Upper Limit	10,000	15	15	10,000	10,000	15
Unit	ppm m / m	%	%	ppm m / m	ppm m / m	%
*Std OREAS 601	988	2.45	2.08	31.9	21	0.36

Element	@Mn	@Mo	@Na	@Ni	@P	@Pb
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	2	1	0.01	1	0.01	2
Upper Limit	10,000	10,000	15	10,000	15	10,000
Unit	ppm m / m	ppm m / m	%	ppm m / m	%	ppm m / m
D00026979	1444	5	2.84	5	0.24	<2
D00026980	776	5	2.59	15	0.22	<2
D00026981	747	6	2.17	7	0.19	<2
*Blk BLANK	<2	<1	<0.01	<1	<0.01	<2
*Std OREAS 601	455	6	1.37	21	0.05	332

Element	@S	@Sb	@Sc	@Sn	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.5	10	0.5	0.01
Upper Limit	5	10,000	10,000	10,000	10,000	15
Unit	%	ppm m / m	ppm m / m	ppm m / m	ppm m / m	%
D00026979	<0.01	<5	15.7	<10	808	0.46
D00026980	0.09	<5	14.4	<10	1096	0.38
D00026981	0.19	<5	10.7	<10	791	0.32
*Blk BLANK	<0.01	<5	<0.5	<10	<0.5	<0.01
*Std OREAS 601	1.07	34	4.1	<10	230	0.17

Element	@V	@W	@Y	@Zn	@Zr
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	2	10	0.5	1	0.5
Upper Limit	10,000	10,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO:  
 Project SGDS Hive  
 Submission Number \*BBY\* SGDS HIVE/ X/ 3 Rocks  
 Number of Samples 3

**ANALYSIS REPORT BBM20-04016**

Element	@V	@W	@Y	@Zn	@Zr
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	2	10	0.5	1	0.5
Upper Limit	10,000	10,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
D00026979	261	<10	17.5	67	6.2
D00026980	228	<10	14.4	31	12.3
D00026981	189	<10	18.7	15	25.6
*Blk BLANK	<2	<10	<0.5	<1	<0.5
*Std OREAS 601	24	<10	10.0	1202	151

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 Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received



## ANALYSIS REPORT BBM20-04394

To COD SGS MINERALS - GEOCHEM VANCOUVER  
 JG DAVISON – GREG DAVISON  
 SGS CANADA INC  
 3260 PRODUCTION WAY  
 BURNABY V5A 4W4  
 BC  
 CANADA

Submission Number	*BBY* JG DAVISON/ VIDETTE / 9	Date Received	03-Sep-2020
Rocks		Date Analysed	05-Sep-2020 - 29-Sep-2020
Number of Samples	9	Date Completed	29-Sep-2020
		SGS Order Number	BBM20-04394

**Methods Summary**

Number of Sample	Method Code	Description
9	G_WGH_KG	Weight of samples received
1	G_SCR_D	Dry Screening (Evaluation of Preparation)
9	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
9	GE_ICP40Q12	4 Acid Digest (HCL/HClO4/HF/HNO3), ICP, 0.2g-12ml
2	GO_ICP42Q100	4 Acid Digest (HCL/HClO4/HF/HNO3), ICP, 0.2g-100ml

Authorised Signatory

John Chiang  
 Laboratory Operations  
 Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Submission Number \*BBY\* JG DAVISON/ VIDETTE / 9  
 Rocks  
 Number of Samples 9

## ANALYSIS REPORT BBM20-04394

Element Method	Wtkg G_WGH_KG	@Au GE_FAA30V5	@Ag GE_ICP40Q12	@Al GE_ICP40Q12	@As GE_ICP40Q12	@Ba GE_ICP40Q12
Lower Limit	0.01	5	2	0.01	3	1
Upper Limit	--	10,000	100	15	10,000	10,000
Unit	kg	ppb	ppm m / m	%	ppm m / m	ppm m / m
108051	1.04	10	<2	8.37	<3	717
108052	1.26	7	<2	7.96	<3	582
108053	0.78	6	<2	9.85	<3	1111
108054	1.57	7	<2	7.25	<3	1602
108055	0.48	8	<2	6.12	<3	1686
108056	1.52	28	5	9.56	11	643
108057	1.86	19	<2	8.15	10	54
108058	1.00	24	7	9.14	686	547
108059	2.24	9	<2	10.17	<3	794
*Std OREAS 601	-	-	53	6.47	322	854
*Rep 108058	-	-	7	9.13	665	564
*Blk BLANK	-	-	<2	<0.01	<3	2
*Rep 108059	-	6	-	-	-	-
*Blk BLANK	-	5	-	-	-	-
*Std SL76	-	5930	-	-	-	-

Element Method	@Be GE_ICP40Q12	@Bi GE_ICP40Q12	@Ca GE_ICP40Q12	@Cd GE_ICP40Q12	@Co GE_ICP40Q12	@Cr GE_ICP40Q12
Lower Limit	0.5	5	0.01	1	1	1
Upper Limit	2,500	10,000	15	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	%	ppm m / m	ppm m / m	ppm m / m
108051	0.6	<5	6.57	<1	38	83
108052	0.6	<5	7.78	<1	37	82
108053	1.2	<5	4.62	<1	14	7
108054	<0.5	<5	8.36	<1	34	235
108055	<0.5	<5	14.69	<1	11	27
108056	1.1	<5	5.55	<1	77	3
108057	0.6	<5	5.84	<1	301	2
108058	0.9	7	4.60	<1	96	3
108059	1.0	<5	6.08	<1	33	3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Submission Number \*BBY\* JG DAVISON/ VIDETTE / 9  
 Rocks  
 Number of Samples 9

## ANALYSIS REPORT BBM20-04394

Element Method	@Be GE_ICP40Q12	@Bi GE_ICP40Q12	@Ca GE_ICP40Q12	@Cd GE_ICP40Q12	@Co GE_ICP40Q12	@Cr GE_ICP40Q12
Lower Limit	0.5	5	0.01	1	1	1
Upper Limit	2,500	10,000	15	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	%	ppm m / m	ppm m / m	ppm m / m
*Std OREAS 601	2.0	22	1.24	7	5	44
*Rep 108058	0.9	12	4.69	<1	93	2
*Blk BLANK	<0.5	<5	<0.01	<1	<1	1

Element Method	@Cu GE_ICP40Q12	@Fe GE_ICP40Q12	@K GE_ICP40Q12	@La GE_ICP40Q12	@Li GE_ICP40Q12	@Mg GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	0.5	1	0.01
Upper Limit	10,000	15	15	10,000	10,000	15
Unit	ppm m / m	%	%	ppm m / m	ppm m / m	%
108051	110	7.41	1.52	10.0	24	4.15
108052	93.6	6.97	1.20	9.4	18	4.29
108053	45.5	4.13	2.55	17.1	18	1.32
108054	28.5	6.68	1.78	8.4	23	5.10
108055	10.6	3.36	1.94	12.8	5	1.39
108056	>10000	3.82	2.24	12.3	32	1.26
108057	5941	11.58	0.12	9.2	13	0.99
108058	>10000	8.74	1.52	14.4	17	1.36
108059	569	4.35	3.05	15.4	28	1.55
*Std OREAS 601	1058	2.37	2.26	33.2	23	0.37
*Rep 108058	>10000	8.58	1.55	14.4	17	1.33
*Blk BLANK	<0.5	0.01	<0.01	<0.5	<1	<0.01

Element Method	@Mn GE_ICP40Q12	@Mo GE_ICP40Q12	@Ni GE_ICP40Q12	@Na GE_ICP40Q12	@P GE_ICP40Q12	@Pb GE_ICP40Q12
Lower Limit	2	1	1	0.01	0.01	2
Upper Limit	10,000	10,000	10,000	15	15	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	%	%	ppm m / m
108051	1440	2	36	2.30	0.12	3
108052	1399	4	45	2.00	0.12	<2
108053	1145	6	3	3.81	0.17	4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Submission Number \*BBY\* JG DAIVISON/ VIDETTE / 9  
 Rocks  
 Number of Samples 9

## ANALYSIS REPORT BBM20-04394

Element Method	@Mn GE_ICP40Q12	@Mo GE_ICP40Q12	@Ni GE_ICP40Q12	@Na GE_ICP40Q12	@P GE_ICP40Q12	@Pb GE_ICP40Q12
Lower Limit	2	1	1	0.01	0.01	2
Upper Limit	10,000	10,000	10,000	15	15	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	%	%	ppm m / m
108054	1135	3	50	1.42	0.25	3
108055	571	8	17	1.68	0.09	<2
108056	1043	4	5	3.90	0.18	9
108057	1077	28	19	3.07	0.16	15
108058	1276	17	8	3.23	0.21	50
108059	1269	1	3	3.56	0.22	2
*Std OREAS 601	475	4	28	1.49	0.05	337
*Rep 108058	1251	16	8	3.30	0.21	49
*Blk BLANK	2	<1	<1	<0.01	<0.01	<2

Element Method	@S GE_ICP40Q12	@Sb GE_ICP40Q12	@Sc GE_ICP40Q12	@Sn GE_ICP40Q12	@Sr GE_ICP40Q12	@Ti GE_ICP40Q12
Lower Limit	0.01	5	0.5	10	0.5	0.01
Upper Limit	5	10,000	10,000	10,000	10,000	15
Unit	%	ppm m / m	ppm m / m	ppm m / m	ppm m / m	%
108051	0.21	<5	33.0	<10	701	0.49
108052	0.14	<5	39.6	<10	567	0.47
108053	0.04	<5	10.7	<10	961	0.37
108054	0.02	<5	37.6	<10	1203	0.38
108055	0.02	<5	12.7	<10	1485	0.31
108056	0.75	<5	9.1	<10	1567	0.31
108057	4.67	<5	9.7	<10	2352	0.27
108058	0.45	<5	10.7	<10	2244	0.38
108059	0.02	<5	10.8	<10	1608	0.41
*Std OREAS 601	1.07	35	4.6	<10	246	0.18
*Rep 108058	0.43	<5	10.6	<10	2263	0.38
*Blk BLANK	<0.01	<5	<0.5	<10	<0.5	<0.01

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Submission Number \*BBY\* JG DAVISON/ VIDETTE / 9  
 Rocks  
 Number of Samples 9

## ANALYSIS REPORT BBM20-04394

Element Method	@V GE_ICP40Q12	@W GE_ICP40Q12	@Y GE_ICP40Q12	@Zn GE_ICP40Q12	@Zr GE_ICP40Q12	Cu GO_ICP42Q100
Lower Limit	2	10	0.5	1	0.5	0.01
Upper Limit	10,000	10,000	10,000	10,000	10,000	30
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	%
108051	290	<10	16.8	90	18.6	-
108052	291	<10	17.7	77	20.2	-
108053	138	<10	22.3	86	32.3	-
108054	283	<10	12.4	79	17.0	-
108055	105	<10	18.1	97	41.9	-
108056	150	<10	15.5	57	52.9	1.14
108057	209	15	12.2	50	43.4	-
108058	220	<10	18.7	92	62.4	2.01
108059	251	<10	20.2	56	63.6	-
*Blk BLANK	-	-	-	-	-	<0.01
*Rep 108058	-	-	-	-	-	2.06
*Std OREAS 928	-	-	-	-	-	1.52
*Std OREAS 601	25	<10	11.0	1276	157	-
*Rep 108058	221	<10	18.8	93	62.8	-
*Blk BLANK	<2	<10	<0.5	<1	<0.5	-

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 Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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# APPENDIX C

## SAMPLE FIELD OBSERVATIONS

Station	Sample	Project	Date	East	North	Zone	UTM	Lith	Structure	Strike	Dip	COMMENTS
X20_LC001		X	2020-05-29	633910.00	5678489.00	10	NAD83	Granodiorite				Magnetitic, strongly foliated, amphibole-biotite-rich granodiorite with 1cm wide Ksp-Qtz vein
X20_LC002		X	2020-05-29	633887.00	5678483.00	10	NAD83	Granodiorite	J1 - jointing	276	54	Magnetitic, strongly foliated, jointed, amphibole-biotite-rich granodiorite with minor disseminated pale-silvery yellow marcasite and brass yellow pyrite.
X20_LC003		X	2020-05-29	633873.00	5678490.00	10	NAD83	Granodiorite	S1 - foliation	268	90	Magnetitic, strongly foliated, jointed, amphibole-biotite-rich granodiorite with minor disseminated pale-silvery yellow marcasite and brass yellow pyrite. Upto 3cm wide K-spar veins (V0) with cross cutting very thin (<2mm) tourmaline veinlet (V1).
X20_LC003		X	2020-05-29	633873.00	5678490.00	10	NAD83	Granodiorite	V1 - veining	282	90	Magnetitic, strongly foliated, jointed, amphibole-biotite-rich granodiorite with minor disseminated pale-silvery yellow marcasite and brass yellow pyrite. Upto 3cm wide K-spar veins (V0) with cross cutting very thin (<2mm) tourmaline veinlet (V1).
X20_LC004		X	2020-05-29	633746.00	5678480.00	10	NAD83	Crystal Tuff				Hematized, foliated, chlorite-epidote altered, quartz-rich, dark grey crystal tuff.
X20_LC005		X	2020-05-29	633691.00	5678478.00	10	NAD83	Chert				Hematized, foliated, cherty-tuff with minor disseminated marcasite, pyrite and arsenopyrite.
X20_LC006	D00026963	X	2020-05-29	633701.00	5678490.00	10	NAD83	Tuff				Hematized, siliceous hornfelsed tuff with minor biotite/maficcs with 3 cm wide K-spar vein. Minor disseminated arsenopyrite within tuff.
X20_LC006		X	2020-05-29	633701.00	5678490.00	10	NAD83	Tuff				Hematized, siliceous hornfelsed tuff with minor biotite/maficcs with 3 cm wide K-spar vein. Minor disseminated arsenopyrite within tuff.
X20_LC007		X	2020-05-29	633724.00	5678519.00	10	NAD83	Tuff				Hematized, vesicular/vuggy (dissolution related?), sandy tuff.
X20_SD001		X	2020-05-29	633848.00	5678482.00	10	NAD83	Syenite	V1 - veining	230	68	Dip direction 320(?) - no face to measure off; fine-grained foliated intrusive; 40cm wide K-spar vein, coarse grained crystals.
X20_SD002		X	2020-05-29	633721.00	5678517.00	10	NAD83	Syenite				Sub-schist(?), foliated bt-rich fine grained intrusive.
X20_AR011	D00026979	X	2020-08-10	633800	5678321	10	NAD83	Basalt				Subcrop, forest burn.
X20_AR012	D00026980	X	2020-08-10	633792	5678361	10	NAD83	Basalt				
X20_AR013	D00026981	X	2020-08-10	633780	5678411	10	NAD83	Basalt				

Station ID	Sample #	Type	Sampler	Project	Date (2020)	Exposure	Elevation (metres)	Easting	Northing	Description
X_SiteVisit1	108057	Grab	AR	X	Sept. 5	Float	1019	633808	5678496	Syenitic intrusive with copper mineralization, massive sulphides
X_SiteVisit2	108058	Grab	AR	X	Sept. 5	Float	1019	633808	5678496	Syenitic intrusive with copper mineralization
X_SiteVisit3	108059	Grab	AR	X	Sept. 5	Float	1028	633872	5678466	Syenitic intrusive with copper mineralization

# APPENDIX D

## Select Sample Images

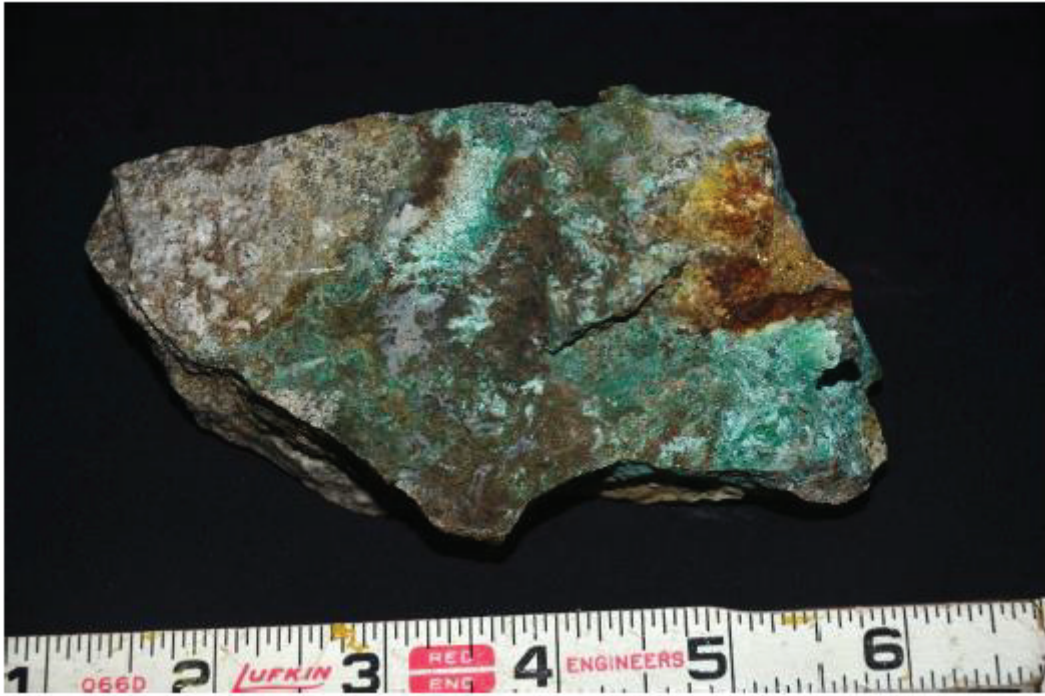
X 108056



X108057



X 108058



X 108058



X 108059



X 108059



# APPENDIX E

## STATEMENT OF QUALIFICATIONS



I, Scott Dorion, have been employed by SGDS-Hive geological consultancy since 2017. I participated in the May 29th and October 18th site visits to the X Property, and I am responsible for the respective 2020 assessment report. I graduated from the University of Alberta in the Fall of 2009, and I am recognized as a P.Geol in the province of British Columbia since December 20th of 2018.

A handwritten signature in black ink, appearing to read "Scott Dorion". The signature is written in a cursive style with a horizontal line underneath the name.

Scott Dorion, P.Geol

EGBC: Licence #48329

Member #213591