ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: 2020 GEOLOGICAL RECONNAISSANCE, PROSPECTING AND SOIL GEOCHEMISTRY REPORT, ADAM WEST PROPERTY, SAYWARD AREA, VANCOUVER ISLAND, BRITISH COLUMBIA

TOTAL COST: $49,767

AUTHOR(S): TOM SETTERFIELD AND KATARINA BJORKMAN

SIGNATURE(S): Tom Setterfield

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):
STATEMENT OF WORK EVENT NUMBER(S)/DATE(S):

YEAR OF WORK: 2020

PROPERTY NAME: Adam West

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

1049417, 1057922, 1057924, 1057941, 1058977, 1071794

COMMODITIES SOUGHT: Copper, gold, silver, zinc, lead

MINERAL INVENTORY MINFILE NUMBER(S),IF KNOWN:
092L116, 092L165, 092L166, 092L167, 092L168, 092L169, 092L180, 092L222, 092L224, 092L402, 092L403, 092L404

MINING DIVISION: Nanaimo
NTS / BCGS: 092L/08E, 092L030, 040
LATITUDE: 50° 16' 54"
LONGITUDE: 126° 03' 59" (at centre of work)
UTM Zone: 09 EASTING: 709000 NORTHING:5574000

OWNER(S): Richard Billingsley

MAILING ADDRESS: 11114 147A St, Surrey, British Columbia, V3R 3W2

OPERATOR(S) [who paid for the work]: Altum Resource Corp.

MAILING ADDRESS: 3148 Highland Boulevard, North Vancouver, British Columbia, V7R 2X6

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**)
Upper Triassic Vancouver Group (Karmutsen and Quatsino formations), Jurasic Island Plutonic Suite. Copper mineralization in amygdules and fractures in basalt; polymetallic skarn/shear mineralization.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:
01993, 03235, 03306, 03403, 08190, 09065, 10479, 11730, 14284, 17449, 17755, 22409, 23906, 27491, 27745, 28327, 28747, 28927, 30121, 31516, 32553, 33012

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)		All claims	
Reconnaissance Geology, Data Interpretation			24,426
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for …)			
Soil (200)		1049417, 1057922, 1057924, 1071794	6852
Silt			
Rock (109)		1049417, 1057922, 1057924, 1058977, 1071794	5,732
Other			
DRILLING (total metres, number of holes, size, storage location)			
Core			
Non-core			
		All claims	12,757
PROSPECTING (scale/area) (variable scale)			
PREPATORY / PHYSICAL			
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)			
Underground development (metres)			

Other		
	Total Cost	49,767

2020 GEOLOGICAL RECONNAISSANCE,

PROSPECTING AND SOIL GEOCHEMISTRY REPORT

ADAM WEST PROPERTY,

SAYWARD AREA, VANCOUVER ISLAND,

BRITISH COLUMBIA

Property Tenures: 1049417, 1057922, 1057924, 1057941, 1058977 and 1071794

Total Assessment Report Related Expenditures: $49,767

NTS Map 092L/08E
BCGS Map 092L030, 092L040
Latitude 50º 16' 54"N Longitude 126º 03' 59"W
UTM Zone 09 (NAD 83): 709000E/5574000N
Nanaimo Mining Division
British Columbia Minfiles: 092L116, 092L165, 092L166, 092L167, 092L168, 092L169, 092L180, 092L222, 092L224, 092L402, 092L403, 092L404

Property Owner
139085-Richard Billingsley
11114 147A St
Surrey, BC
V3R 3W2

Operator/Optioner
Altum Resource Corp.*
3148 Highland Boulevard
North Vancouver, BC
V7R 2X6

*Now GoldHaven Resources Corp., 2300-1177 West Hastings St., Vancouver, BC, V6E 2K3

Date: October 13, 2020

Authors
"Signed & Sealed"
Dr. Tom Setterfield, P.Geo
Dr. Katarina Bjorkman

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SUMMARY

The Adam West property is located approximately 15 km south-southwest of the small town of Sayward on Vancouver Island and 65 km north-northwest of the larger town of Campbell River. The Property straddles the Adam River immediately south of Highway 19 and is accessed via local logging roads; it is best known for its copper potential, but also contains at least one area with good gold potential. The Property consists of six mineral tenures covering a total of 4,686.89 hectares (46.87 km^2). All tenures are 100% owned by Richard Billingsley, but are under option to Altum Resource Corp.

In the first half of 2019, Altum conducted a prospecting/geological reconnaissance campaign, an airborne magnetic survey and a local soil survey on the Property. Altum then expanded the property to its present size in October 2019 by staking an additional ~16 km^2. In 2020, Altum undertook further prospecting, reconnaissance and local detailed geological mapping, and a second soil survey. The objectives of the 2020 program were to improve the geological understanding of selected mineral occurrences, improve the spatial accuracy of important data collected in 2019 and to conduct geological reconnaissance and explore for new mineralization on the newly staked ground.

The Property contains Upper Triassic Karmutsen Formation basalts and minor interbedded limestone, overlain to the east by limestone of the Upper Triassic Quatsino Formation, intruded by the Early to Middle Jurassic Island Plutonic Suite. Basalts of the Karmutsen are massive to pillowed, with variable amounts of amygdules and plagioclase phenocrysts. They are interlayered with rare beds of limestone, particularly at the Adam West showing. The Quatsino Formation limestone is grey and massive, and probably not as continuous as shown on the geological map. The Island Plutonic Suite is typically massive and medium-grained, and varies in composition from granodiorite to diorite.

Twelve mineral occurrences are listed in the provincial MINFILE database; these were discovered during highly intermittent exploration of the Property from the early 1900's to approximately 2012. Altum's 2019 exploration provided more information about the location and tenor of these occurrences, and established that some of them either do not exist or occur at a completely different location.

2019 prospecting revealed that anomalous to ore grade copper is widely distributed on the Property, with values up to 38.6%. Copper mostly occurs in amygdules, along fractures and in quartz veins in basalt. Areas of historically known copper in basalt that were highlighted in the 2019 program include Adam West (up to 13.4% Cu), Boyes Creek (up to 38.6% Cu) and Eloise (up to 2.79% Cu). Of these, only Boyes Creek contains significant silver, up to 167 g/t. In addition, anomalous copper occurs over a 2.3 km long zone from just northwest of the Adam West showing to Boyes Creek. Much of this mineralization is exposed on the sides of logging roads which did not exist during most of the previous exploration history. Polymetallic mineralization, including anomalous to ore grade gold, occurs in skarn and shear zones at Lucky Jim. Three mineralized surfaces were interpreted, with values from different grab samples returning up to 69.4 g/t Au, 129 g/t Ag, 9.54% Cu and 2.19% Zn.

The 2019 airborne magnetic survey shows that the Island Plutonic Suite is an area of moderate intensity magnetics in the northeast part of the Property, bordered to the west by a zone of low magnetics which roughly corresponds to the Quatsino Formation limestone. The Karmutsen Formation basalt has a highly variable magnetic signature. The basalt shows a strong magnetic response in the northwest and southeast parts of the Property, but only a low to moderate magnetic signature in the southwest quarter of the

Property. Interestingly, the most copper-rich parts of the Property (Boyes Creek, Adam West, Eloise, etc) are associated with basalt that has a strong magnetic response.

A total of 105 rock samples and 200 soil samples was collected on the Property in 2020. Gold results in grab samples varied from below detection to a high of 16.55 g/t, silver from below detection to 144 g/t, copper from 56 ppm to 46.4%, lead from below detection to 36 ppm and zinc from 2 ppm to 0.96%. Soil samples were analyzed with a handheld XRF analyzer. Copper was the main element of interest; results ranged from below detection to 548 ppm.

Highlights from the 2020 program include:

- Discovery of the Sisters Copper showing, with peak values of 46.4% Cu and 144 g/t Ag within a 20 m wide mineralized structure;
- Delineation of a 5 km long by >500 m wide zone of anomalous copper from Boyes Creek to northwest of the Sisters Copper showing. 152 grab samples were taken in this zone during 2019/2020 and 102 returned values >0.25% Cu with 32 exceeding >2.5% Cu;
- Extension of the Adam West showing copper zone from a strike length of 140 m to 750 m;
- Soil sampling corroborated the continuity of the Adam West horizon and revealed other areas for follow-up prospecting; and
- Mapping of the Lucky Jim gold showing identified a dilational zone within a north-trending fault system. Sampling in 2020 returned up to 16.55 g/t Au. The main mineralized horizon is probably repeated by folding and may have experienced later displacement during continued shearing. This provides an interpretation to aid additional targeting/testing by drilling.

The two exploration programs conducted by Altum have been successful in establishing the exact location and setting of historical occurrences and in discovering significant new mineralization, predominantly along new logging roads. Knowledge of the distribution of the different rock types on the Property has been improved, and detailed property-wide magnetic information was acquired. The Property is thought to have considerable merit, and further exploration is definitely justified. Opportunities at several stages of the exploration cycle are apparent on the Property as follows: i) Lucky Jim, which is almost drill ready; ii) Boyes Creek/Adam West/Sisters Copper and to a lesser extent Eloise, which need more work to produce drill targets; and iii) the remainder of the Property. Program recommendations for each type of opportunity follow.

Lucky Jim is the only prospect to contain significant concentrations of gold. It needs one more round of exploration in order to effectively target drill holes. Previous drilling is deemed to be only minimally effective because most holes were short and some of them were drilled subparallel to the dip of the main mineralized zone. The geological/structural mapping performed in 2020 improved the understanding of the geology and surface mineralization; it now appears that the main mineralized surface is repeated by folding, and that at least two mineralized shears are present. Additional mapping north and south of the showing is recommended to put the mineralization into a broader geological context. An Induced Polarization survey is also recommended, in an attempt to track the geophysical response of the mineralized surfaces along strike and down-dip from their surface expressions.

Boyes Creek, Sisters Copper and Adam West are all attractive copper prospects. Eloise does not look quite as good, but has not received as much attention. Further mapping is recommended for Boyes Creek in order to better define mineralized structures and zones and to map offsetting structures. The area should be further explored and mapped along strike in both directions (east and west). The Sisters Copper showing and environs should be subjected to additional mapping and prospecting; the true distribution of copper mineralization in this area is not yet understood. Reconnaissance IP along logging roads in this area is recommended. A gridded IP survey is recommended at Adam West, where the target horizon is well defined. Isolated copper-in-soil anomalies at Adam West should be field checked. Additional prospecting should be undertaken at Eloise; Altum has only spent one day there so far. A reconnaissance style soil geochemical survey (200 m line spacing?) is recommended for the 5 km long zone from Boyes Creek to the northwest corner of the Property.

The remainder of the Property should be prospected and mapped at a reconnaissance scale; this includes all logging roads, as many streams as practicable, and selected traverses through forests and clear cuts. Based on results to date, priority should be given to areas underlain by basalt with a high magnetic signature.

The assessment-eligible work documented in this report cost $49,767.

1.0 INTRODUCTION

1.1 General

The Adam West property (the "Property") is located approximately 15 km south-southwest of the small town of Sayward on Vancouver Island (British Columbia) and 65 km north-northwest of the larger town of Campbell River (Fig. 1). The Property straddles the Adam River immediately south of Highway 19; it is best known for its copper potential, but also contains at least one area with good gold potential.

Figure 1: Location of the Adam West Property, Vancouver Island

Important but poorly documented work was completed on the Property in the 1920's, and also in the 1940's and 50's. Intermittent exploration occurred on the Property from the late 1960's to approximately 2012; this work is documented in the ARIS (assessment report) database of the BC Ministry of Energy Mines and Petroleum Resources (see https://aris.empr.gov.bc.ca/). Twelve mineral occurrences are listed in the provincial MINFILE database of the BC Ministry of Energy Mines and Petroleum Resources for the Property (see https://minfile.gov.bc.ca/).

The Property is 100% owned by Richard Billingsley, but was optioned to Altum Resource Corp. ("Altum"), who is earning a 100% interest in the Property over four years, subject to an NSR retained by Billingsley. Altum used Adam West as their Property of Merit to go public; their 43-101 Technical Report on the Property is available on Sedar (Wasteneys, 2019). Altum has since changed its name to GoldHaven Resources Corp. The senior author was commissioned to organize and implement a prospecting/geological reconnaissance campaign and local soil survey on the Property in the early summer of 2020. The main objectives were to follow up on encouraging results obtained during 2019 exploration (Setterfield, 2020) and to prospect and conduct geological reconnaissance on new ground that was staked to the west of the original property. This report documents exploration conducted in 2020.

The 1983 North American Datum (NAD83) co-ordinate system is used in this report. The Property is in Universal Transverse Mercator (UTM) Zone 09N.

1.2 Abbreviations Used in the Report

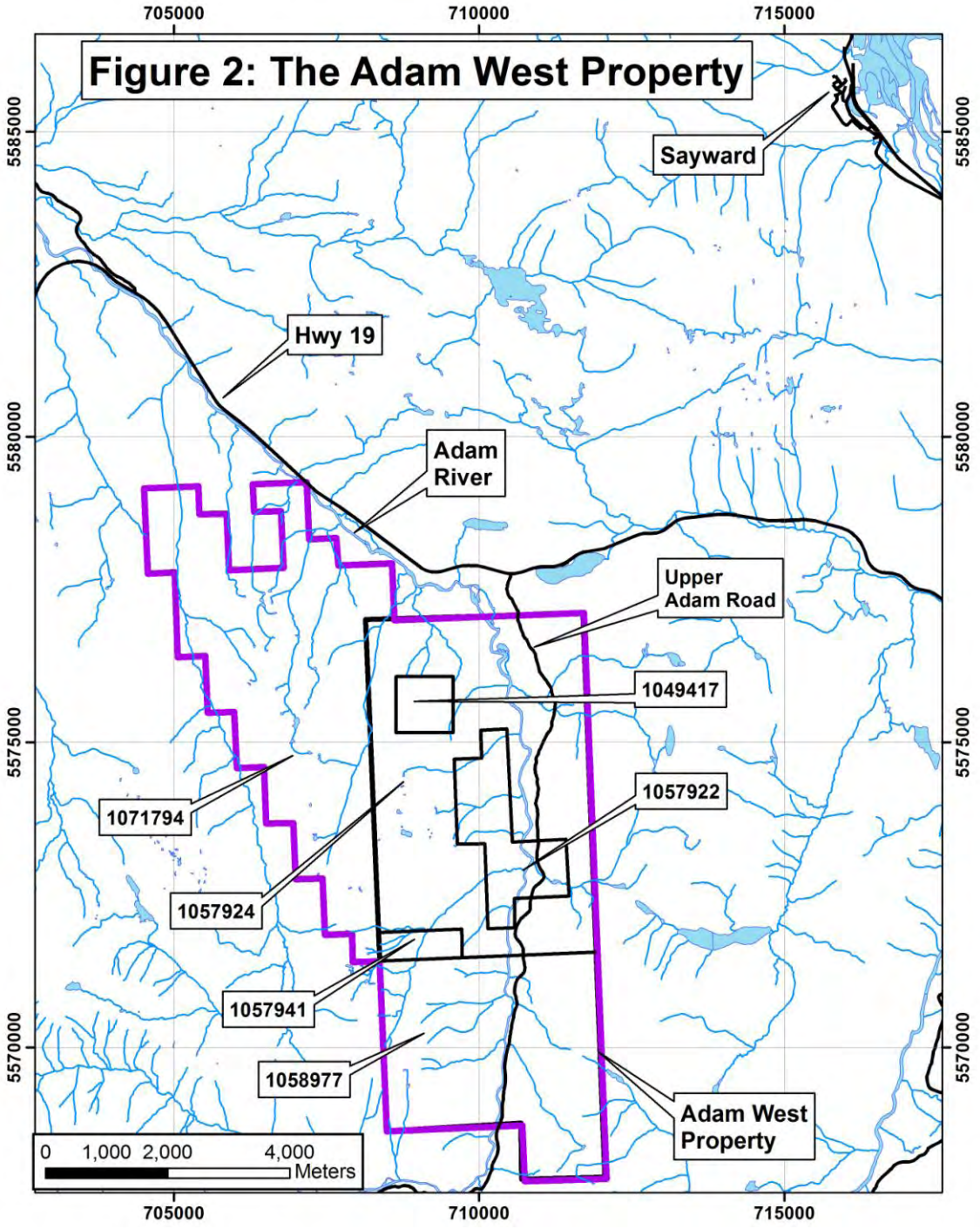
Ag – silver
Au – gold
Cu – copper
Mo – molybdenum
Pb – lead
Sb - antimony
Zn – zinc
g/t – grams per tonne
cm – centimeter
m – meter
km - kilometer
ARIS -Assessment Report Indexing System
oz - ounce
cpy– chalcopyrite
qtz – quartz
py – pyrite
qtz – quartz
sphal - sphalerite
BCGS – British Columbia Geological Survey Ma (mega-annum) - one million years
PROP – property files, BCGC
QFP - quartz feldspar porphyry

2.0 PROPERTY DESCRIPTION AND LOCATION

The Property occurs 15 km south-southwest of Sayward (population 350) in the Nanaimo Mining Division (Fig. 2). Sayward is an approximately one hour drive from Campbell River (population 35,000) or 1.5 hours from Courtenay/Comox (population 40,000; Fig. 1). The Property consists of six mineral tenures covering a total of 4,686.89 hectares (46.87 km^2), centered at approximately 709000E/5574000N (UTM Co-ordinates) or 50º 16' 54"N /126º 03' 59"W (longitude /latitude), in National Topographic System (NTS) 1:50,000 map sheet 092L/08E (Table 1; Fig. 2; Map 1). All tenures comprising the Property are 100% owned by Richard Billingsley (Client #139085) of Surrey, British Columbia, but are under option to Altum Resource Corp. (now GoldHaven Resources Corp.).

Table 1. Mineral Tenures Comprising the Adam West Property

Title No	Claim Name	Issue Date	Good To Date	Area (ha)
1049417		2017/JAN/24	2023/OCT/1	82.56
1057922		2018/ JAN/25	2023/OCT/1	289.09
1057924	ADAM WEST BLOCK 092L.030	2018/ JAN/25	2023/OCT/1	1,548.41
1057941	ADAM WEST BK 1 092L.030	2018/ JAN/26	2023/OCT/1	61.96
1058977	ADAM WEST BK 2 092L.030	2018/MAR/01	2023/OCT/1	1,115.61
1071794	ADAM MARK II	2019/OCT/15	2020/OCT/15	1,589.26



3.0 ACCESS AND PHYSIOGRAPHY

Access to the Property is gained from paved Highway 19, the main highway servicing the northern two thirds of Vancouver Island. The gravel logging road called Upper Adam Road runs along the east side of the Adam River, the main waterway on the Property (Fig. 2); this road provides access to the east side of the Property. Other logging roads in various conditions provide access elsewhere on the Property (Fig. 3). Most of the Property is only accessible by walking from these roads; helicopters can in some instances be landed in areas that have been clear cut during logging operations.

The Property occurs in typical inland Vancouver Island terrain: not exactly mountainous, but with significant relief (Plate 1; Fig. 3). Elevation on the Property ranges from 220 m ASL on the Adam River in the northern part of the Property to 1280 m ASL in the southwest corner of the Property. The Property is typically densely forested except in areas of recent logging. None of the Property is above the tree line, but tree cover is sparse in the highest parts of the Property (above 1100 m ASL). The north-trending Adam River and its associated valley constitute the main physiographic feature on the Property; numerous small but fast flowing streams are also present (Fig. 3).

Plate 1: Adam West Property-Looking Southwest Across the Adam River Valley

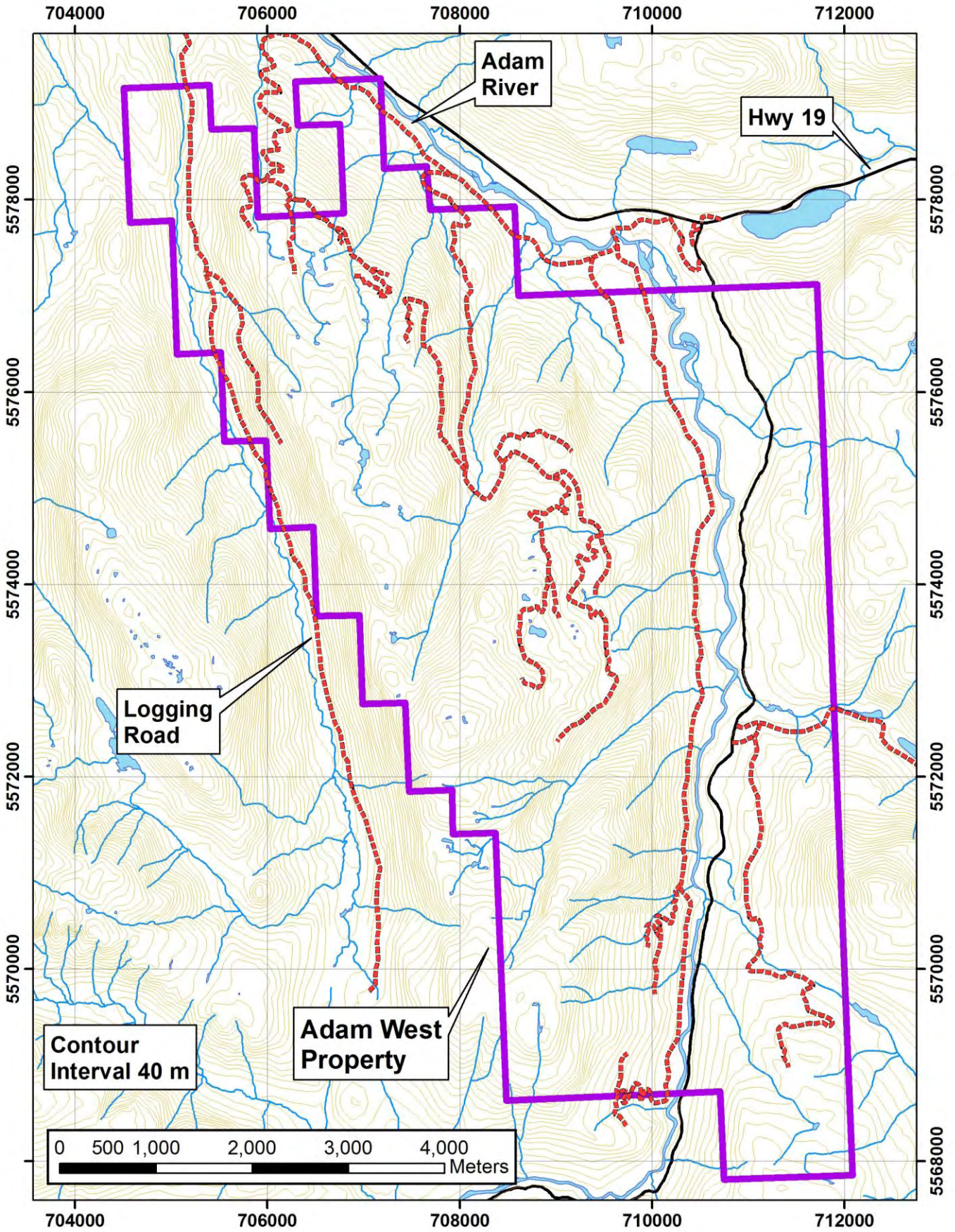


Figure 3: Physiography and Logging Roads of the Adam West Property

4.0 GEOLOGIC SETTING

4.1 Geology

Vancouver Island comprises the southern part of the Wrangellia Terrane, which was accreted to North America approximately 100 million years ago, and extends north into southern Alaska (Wasteneys, 2019). Wrangellian rocks of Vancouver Island include i) Paleozoic, dominantly volcanic rocks of the Sicker and Buttle Lake groups; ii) Upper Triassic rocks of the Vancouver Group, including the Karmutsen, Quatsino and Parson Bay formations; iii) Lower Jurassic rocks of the Bonanza Group; all intruded by iv) the Early/Middle Jurassic Island Plutonic Suite (Fig. 4).

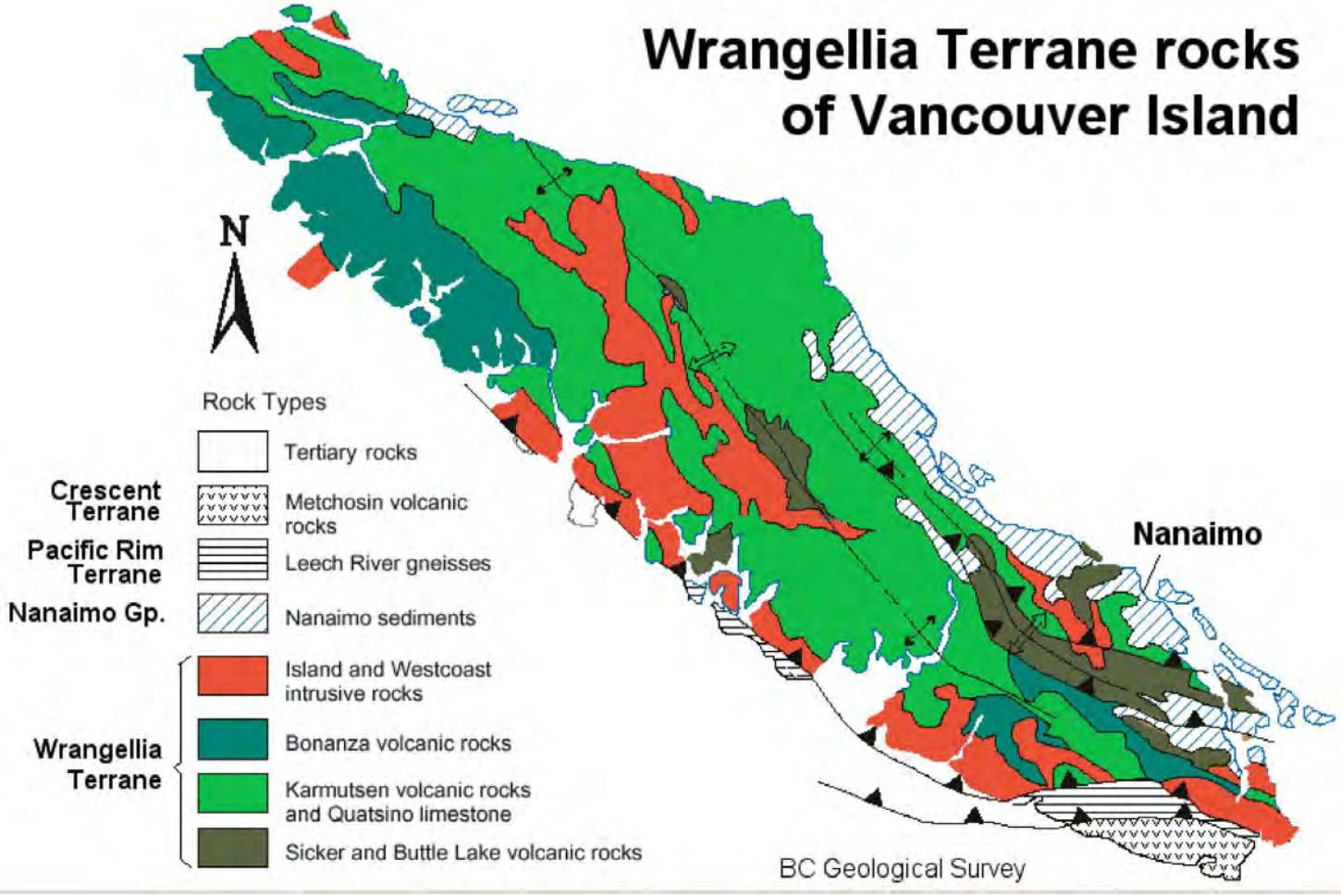
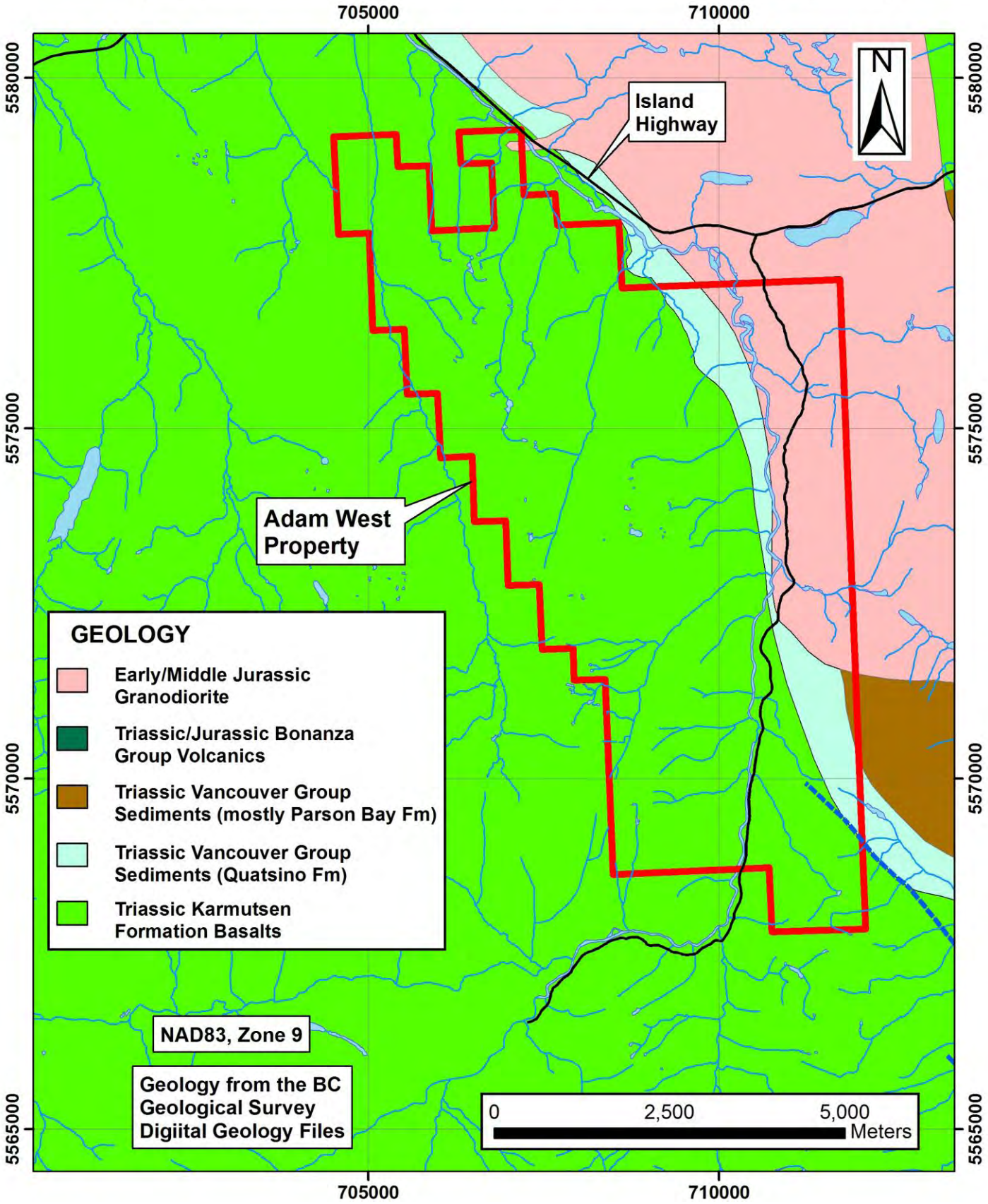


Figure 4: Wrangellian Rocks on Vancouver Island (from Earle, Undated)

The Property contains Upper Triassic Karmutsen Formation basalts and minor interbedded limestone, overlain to the east by limestone of the Upper Triassic Quatsino Formation, intruded by the Early to Middle Jurassic Island Plutonic Suite (Fig. 5). Basalts of the Karmutsen Formation are massive to pillowed, with variable amounts of amygdules and plagioclase phenocrysts. They are interlayered with rare beds of limestone, particularly at the Adam West showing (see below). The Quatsino Formation limestone is grey and massive, and probably not as continuous as shown on the geological map. The Island Plutonic Suite is typically massive and medium-grained, and varies in composition from granodiorite to diorite.

Figure 5: Geology of the Adam West Property



4.2 Minfile Occurrences

Twelve mineral occurrences are listed in the provincial MINFILE database of the BC Ministry of Energy Mines and Petroleum Resources for the Property (Fig. 6). These are described briefly from north to south on the Property. Altum's 2019 exploration provided more information about the location and tenor of these occurrences, and established that some of them either do not exist or occur at a completely different location (Setterfield, 2020).

Kringle South: Vein, breccia and stockworks with Au-Ag-Cu; pyrite-chalcopyrite mineralization and chlorite-epidote alteration. A sample taken in 2006 had 0.17% Cu, 0.49 g/t Au and 3.1 g/t Ag. Minor mineralization in basalt interbedded with limestone.

Keta: Stockwork/porphyry chalcopyrite mineralization with epidote and (?) potassic alteration in the Island Plutonic Suite. No values provided. This occurrence is not in its specified location.

Adam West: Stratabound replacement mineralization with Cu-Ag-Au, chalcopyrite-bornite-native copper-chalcocite. Sulphides replace amygdules and occur along fractures in an area where basalt is interbedded with limestone. A 1972 drill intersection of 23.5 m @ 0.84% Cu is quoted, as well as a 1984 grab sample of 0.76% Cu/3.1 g/t Ag, a 1985 drill core sample of 0.57% Cu/1.4 g/t Au/ 0.016 g/t Ag and 1991 grab samples of up to 4.59% Cu.

George: Stockwork, disseminated chalcopyrite-bornite in basalt, labelled as volcanic redbed style mineralization. One estimate in 1969 suggested 1.6 m @ 0.25% Cu from four trenches.

Boyes 3: Stockwork, massive and disseminated chalcopyrite-bornite-chalcocite-native copper with epidote-chlorite alteration in basalts. In 1969, seven channels over a 116 m strike length averaged 3.9% Cu over a width of 1.2 m, with up to 18.7 g/t Ag, 0.62 g/t Au.

Kringle Bornite: Vein, breccia, stockwork bornite-pyrite in quartz veins in basalt. A grab sample ran 0.61% Cu/0.22 g/t Au/4.8 g/t Ag.

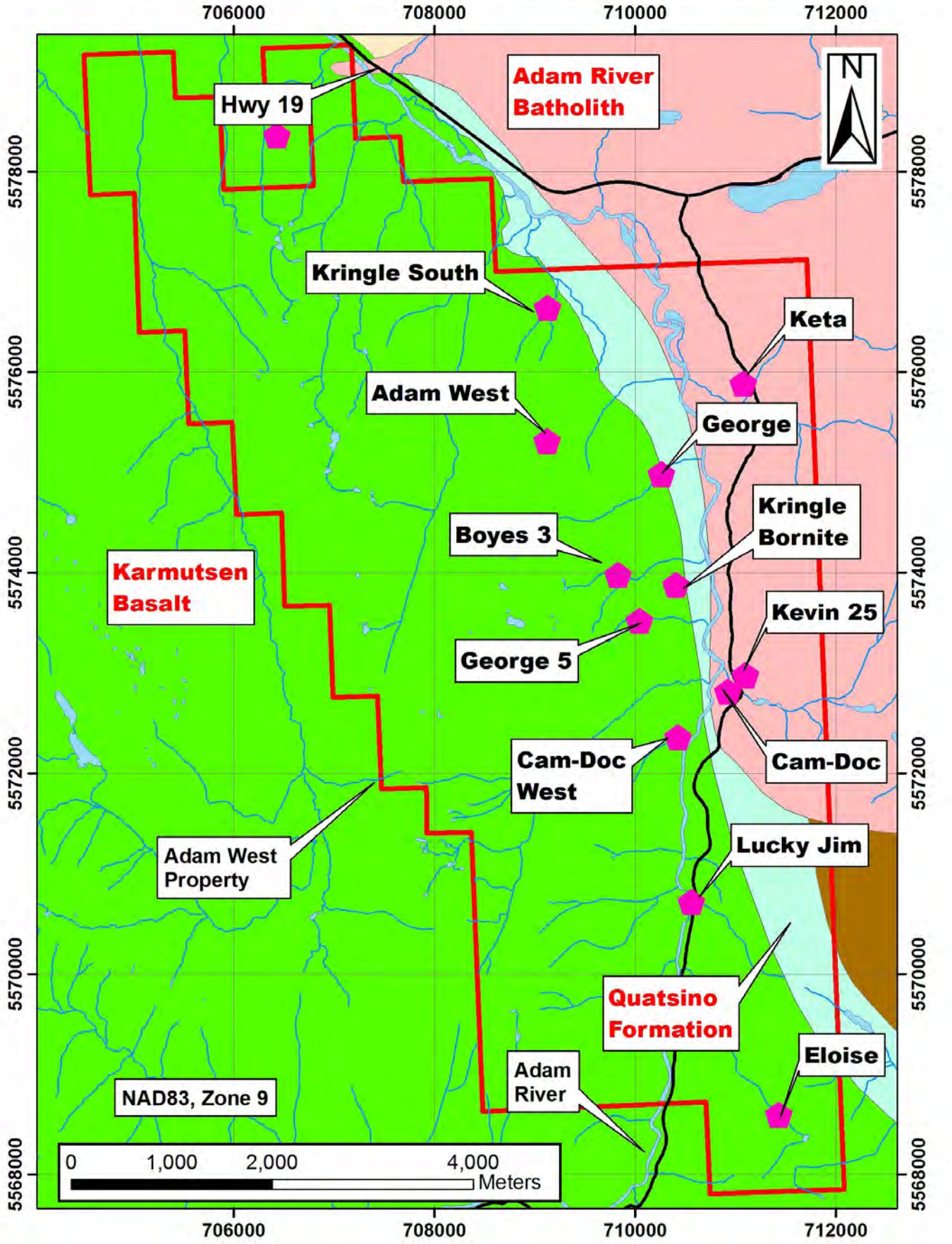
George 5: Chalcopyrite-pyrite in calcite-epidote breccia in basalt. 1969 chip sample of 1.5 m @ 0.9% Cu/0.6 g/t Au/6.2 g/t Ag was reported.

Kevin 25: Minor chalcopyrite in ?skarn in tuff or limestone. This occurrence is not in its specified location.

Cam-Doc: This occurrence is described as two different zones (veins/pods rich in sulphide). One is 2 m wide, 57 m long vein in ?skarn, and contains chalcopyrite-pyrite-pyrrhotite, and the other is up to 1 m wide and 30 m long. Both are described as containing Au, Cu and Ag. It appears that this and the Cam-Doc West occurrences have been confused with Lucky Jim; there is no occurrence at Cam-Doc.

Cam-Doc West: This is described as a skarn/vein with pyrite-pyrrhotite-chalcopyrite-sphalerite-galena in ?limestone. It is thought by this author to actually be the western part of the Lucky Jim occurrence, and to be mis-plotted by 1.6 km.

Figure 6: Minfile Occurrences of the Adam West Property



Lucky Jim: The Lucky Jim occurrence is shown in the Minfile database as being 6 km up the Adam River (i.e. south) from its actual location. It is not clear what the description in the database is referring to (see below for information on Lucky Jim).

Eloise: The Eloise occurrence in the southeast corner of the Property (Fig. 6) is described as chalcopyrite-bornite-pyrite mineralization in fractures over a 900 m strike length; copper assays were up to 2.0%.

5.0 PREVIOUS EXPLORATION

The Lucky Jim prospect was first described in the Annual Report of the Bureau of Mines for 1918 (Bureau of Mines, 1919). They say "*….ore which occurs on the Lucky Jim claim group belongs to the contact-metamorphic type, with copper minerals occurring at the contact of granodiorite and limestone. The mineralization consists of pyrrhotite, pyrite, marcasite, and chalcopyrite in breccia gangue containing much hornblende and some calcite. Apparently the ore occurs as a partial replacement of the metamorphic rocks in the contact zone…….. A sample taken from the workings assayed: Gold 0.9 oz.; Silver 1.8 oz.; Copper, 5.35 per cent*". They also note the presence of several adits on the bank of the Adam River.

Bethlehem Copper did stripping, trenching and some soil sampling on the Boyes group of claims in the north-central part of the Property in 1969 (Sharp, 1969). They defined a structure along Boyes Creek; sampling in the west part of it had a weighted average of 4' @ 3.9% Cu over a 116 m strike length as per the Minfile. This calculation may be suspect, but the best trench results are 3' @ 13.75% Cu/20.6 g/t Ag and 2' @ 26.7 g/t Au, 202 g/t Ag and 4.11% Cu. They described a "*braided lode containing stringers, lenses and disseminations of chalcopyrite and bornite, with minor chalcocite and native Cu*" over a length of 1,000'. Breccias caused by intersecting fractures are also present. Cu mineralization also occurs on a creek north of Boyes Creek, but the amount is unclear. The George 5 showing occurs on the creek south of Boyes Creek; it returned 5' @ 0.90% Cu, 0.69 g/t Au and 6.9 g/t Ag.

Conoco Silver Mines conducted a large soil geochemical survey over some or all of this claim group in 1971(Mottershead, 1971). They also conducted an IP survey over part of the Boyes Group, including the Boyes 3 claim (Cochrane, 1971). They were primarily trying to prioritize geochemical anomalies. They found two areas of anomalous chargeability, but their maps are not good enough to know where these areas are on the ground.

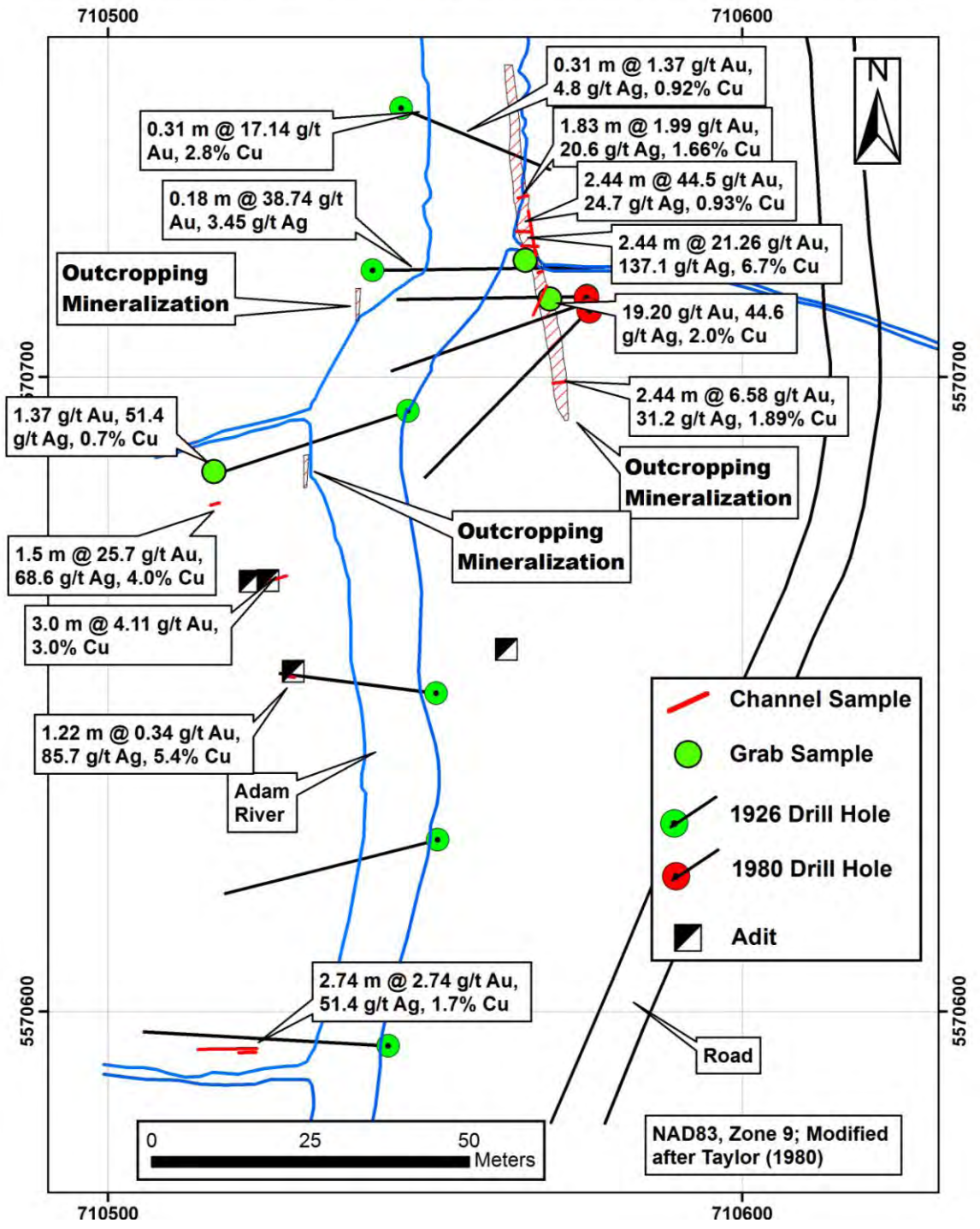
Western Standard Silver Mines had the Tammy Group of claims in the west part of the Property and the M1-37 Group south of the Boyes Group. They completed mapping and soil sampling in 1971, but did not find much of interest (Sharp, 1971).

A syndicate of four people owned the Dik and Doc claims in the south-central part of the Property in 1979/80. They completed a ground magnetic survey in 1979 which did not find anything of interest, and they also undertook compilation, mapping and sampling over the Lucky Jim showing (Taylor, 1980). They described the main mineralized zone at Lucky Jim as occurring on the east side of the river, striking 350º, dipping 80ºW and being traceable for 57 m. Their best result was a chip sample of 2.44 m @ 44.5 g/t Au, 24.7 g/t Ag and 0.93% Cu in a "skarny" vein in limestone near the contact with the Karmutsen volcanics. They suggest that there might be three other veins. They had access to

historical reports not presently available which show six 1926 Cominco drill holes with a best drill intercept of **0.18 m @ 38.7 g/t Au and 3.4 g/t Ag**, as well as other mineralized grab samples and drill holes (Fig. 7).

Five M Resources Inc. drilled five BQ holes at Lucky Jim in 1980 (Sheppard, 1981). All holes were collared east of the river, and were drilled to the west (i.e. down-dip of the mineralization). Three of the holes were at the main Lucky Jim showing (Fig. 7) and the other two were 100 m to the north. The best result was 1.4' @ 0.35% Cu.

Figure 7: Historical Mineralization at the Lucky Jim Prospect



In 1981, H.M. Jones commissioned a ground magnetic survey in the Eloise area (southeast portion of Property; Fig. 6; Taylor, 1982). Nothing of interest was discovered. They did note that in 1969, 15 pits were excavated over 900 m, exposing a 1-2 m width of mineralized andesite grading 0.3 to 2% Cu. Acadian Gold conducted mapping and soil geochemistry in 1983, but did not find anything of interest (Smitheringale, 1983). Mineralization occurs as fractures in basalt along Lois Creek.

Craven Resources explored a block of ground in the area of the Adam West showing (Fig. 6) in 1984 (Ikona, 1985). They completed geological examinations, a small soil geochemical survey and an examination of historical drill core. They found minor Cu in basalt proximal to contacts with interbedded limestone, with a best grab sample result 0.76% Cu, and 67 ppb Au, and up to 0.58% Cu in core samples. It is not clear from the report when the historical drilling was done.

Dave Javorsky commissioned a small prospecting program at Lucky Jim in 1987 (Henneberry, 1987). Encouraging gold numbers were obtained on two levels east of the river, with a best chip sample result of 1.1 m @ 11.2 g/t Au next to one of the adits. The interpretation was that the gold is associated with an andesitic dike. Welcome North Mines prospected ground south of Lucky Jim in 1987, finding fracture controlled pyrite-chalcopyrite mineralization with values up to 0.66% Cu and 2.16 g/t Au (Roberts, 1988). In 2004, Hillsborough Resources Ltd. completed the last recorded work at Lucky Jim prior to the present exploration (Gardner and Becherer, 2004; Becherer, 2004). They undertook sketch mapping and grab sampling, obtaining values up to 34.2 g/t Au and 5.4% Cu (different samples).

West Pride Industries had a property comprising the central 40% of the present Property; they conducted extensive compilation work, as well as reconnaissance geology and geochemistry in 1991 (Leriche, 1991). They resampled core drilled at the Adam West showing in 1972. They describe the showing as having chalcopyrite-bornite-chalcocite and native copper in fractures and disseminations in basalt, with up to 10' @ 2.7% Cu in trenches and 17' @ 2.96% Cu in a drill hole intersection. They estimate a resource of 2 million tons at an undefined grade. They collected samples with up to 5.49% Cu at the Adam West showing. Their suggestion is that a limestone interbed at this showing formed a trap for mineralizing fluids. Their sampling on Boyes Creek yielded up to 3.1% Cu.

Lucky Break Gold Inc. commissioned a 6.6 line km ground magnetic/VLF survey over an area of anomalous soils 1.2 km northeast of the Adam West showing (Leriche, 1995). They found a VLF conductor at the approximate western contact of the Island Plutonic Suite. The significance of this is not clear (not considered high priority).

From 2005 to 2012, geologist/prospector Mikkel Schau undertook several campaigns of work on the Property and on ground to the northwest (Schau, 2005; 2006a; b; 2007; 2008; 2010; 2011; 2012). He obtained 0.61% Cu and 0.2 g/t Au at the Kringle Bornite showing, as well as 0.49 g/t Au at the Kringle South showing (Fig. 6). His work yielded scattered anomalous values elsewhere on the Property that have been entered into the Adam West database, as well as petrographic, alteration and magnetic susceptibility information that is not immediately useful but may be helpful as exploration progresses.

In 2018, Peter E. Walcott and Associates conducted a one-line, 3.5 km long IP survey from 750 m northwest of the Adam West showing to 600 m southeast of Boyes Creek (Walcott, 2019a). Chargeability anomalies were identified both southeast and northwest of Boyes Creek, but not at Boyes Creek itself. A moderate strength chargeability anomaly is present at the Adam West showing.

6.0 2019 EXPLORATION BY ALTUM

6.1 General

A property-wide prospecting and geological reconnaissance program was completed in 2019 on the Adam West property (Setterfield, 2020). The program focused on re-locating known mineral occurrences and prospecting logging roads, some of which were not in existence during previous exploration campaigns. A soil survey was completed over the Lucky Jim area. A total of 186 rock samples and 63 soil samples was collected. An airborne magnetic survey was flown over the Property in June, 2019 (Walcott, 2019b).

2019 prospecting revealed that anomalous to ore grade copper is widely distributed on the Property (Fig. 8), with values up to 38.6%. Copper occurs in amygdules (Plate 2), along fractures and in quartz veins in basalt and in skarn and shear zones at Lucky Jim. Areas of historically known copper that were highlighted in the 2019 program include Adam West, Boyes Creek, Lucky Jim and Eloise. In addition, anomalous copper occurs over a 2.3 km long zone from just northwest of the Adam West showing to Boyes Creek. Anomalous to ore grade gold is mostly restricted to the Lucky Jim area (Fig. 9). The highest gold value from the 2019 program was 69.4 g/t at Lucky Jim. Strongly anomalous silver values are restricted to Boyes Creek and Lucky Jim; the highest value was 167 g/t Ag from Boyes Creek.

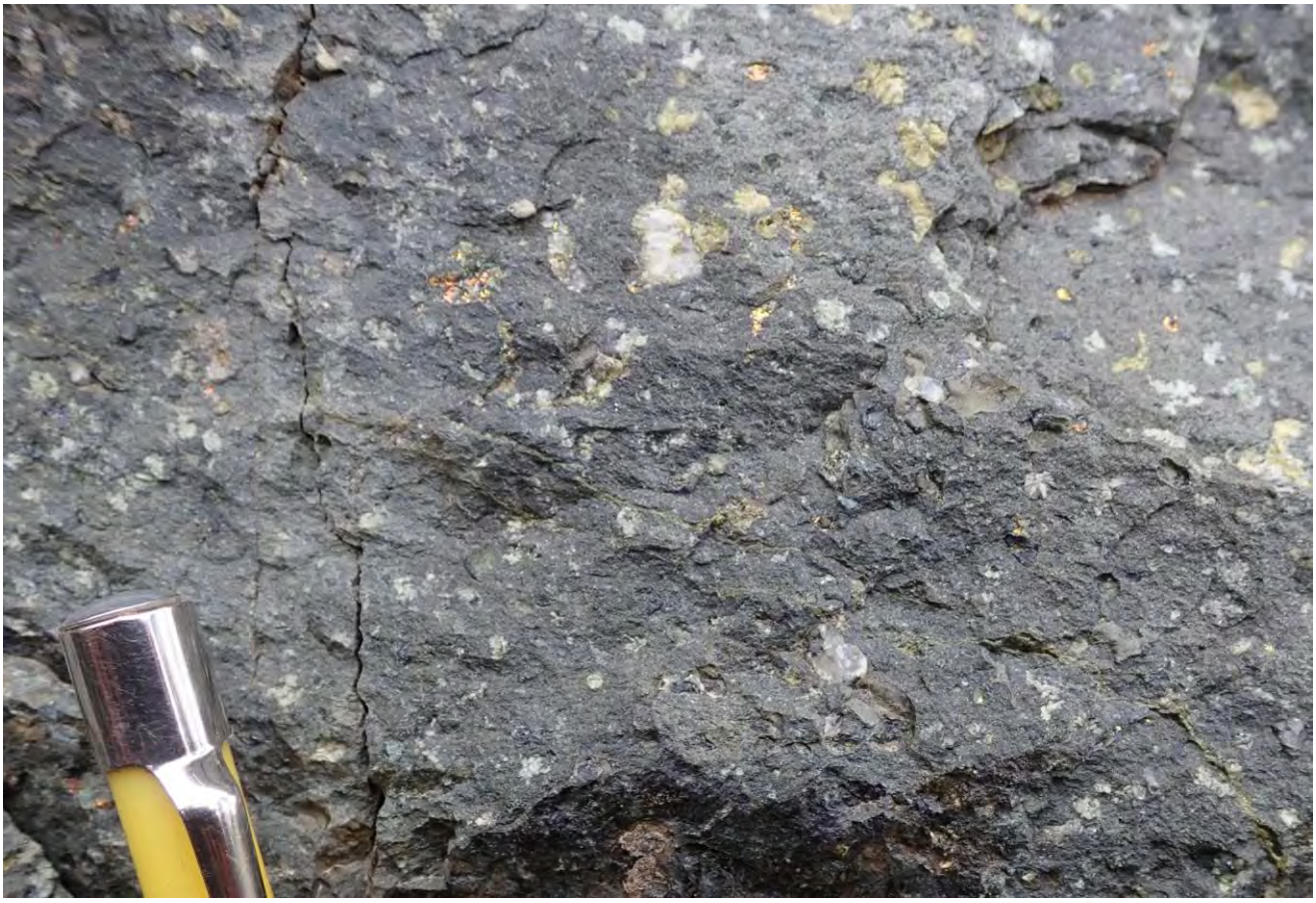
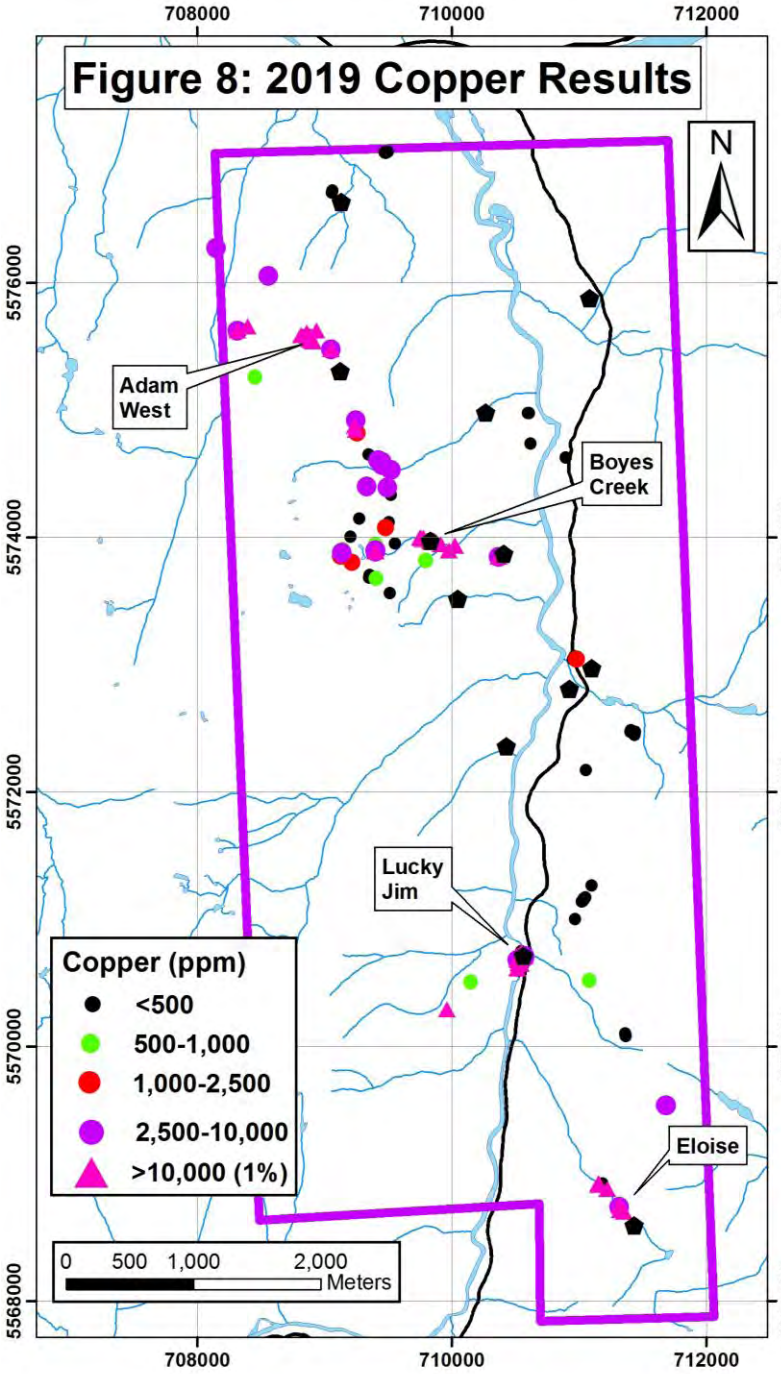
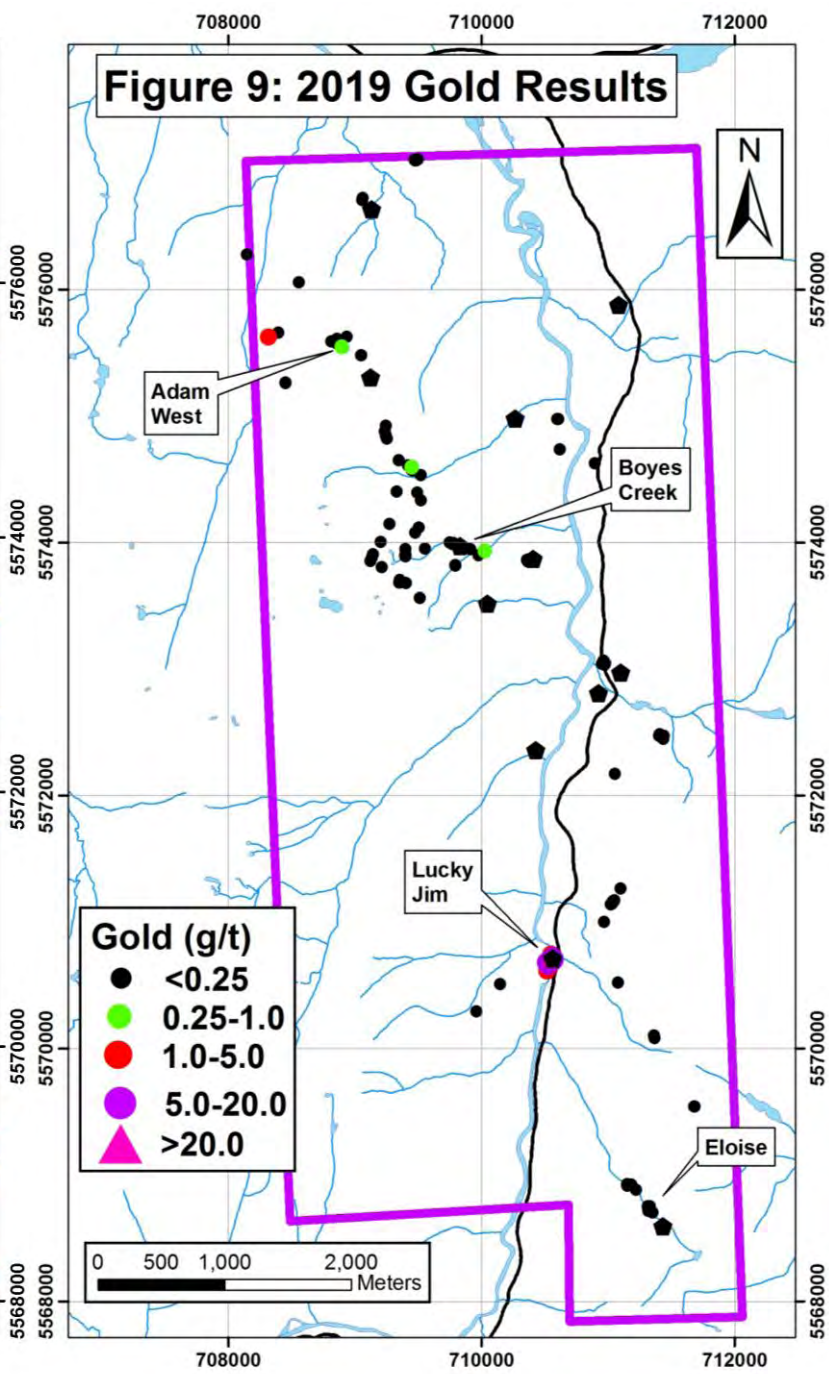


Plate 2: Copper Sulphides in Amygdules in Karmutsen Formation Basalt, Adam West Property





From Setterfield (2020).

6.2 Lucky Jim

The Lucky Jim area occurs at the approximate contact between the Quatsino Formation limestone and basalt of the Karmutsen Formation. The main mineralized horizon or ore surface is at this contact, and outcrops on the eastern side of the Adam River for 60 m, trending west-northwest and dipping steeply to the west (Fig. 7). A drill intercept of 0.31 m @ 3.74 g/t Au and 0.06% Cu occurs north of the outcropping mineralization, and may represent the extension of this mineralized surface; if so, this surface extends for at least 125 m along strike (Fig. 10). This zone is likely a skarn, with dark green minerals (?actinolite, diopside) and variable amounts of pyrrhotite, pyrite and chalcopyrite (Plate 3).

The central surface, potentially traceable for at least 135 m (Fig. 10), yielded grab samples with up to 69.4 g/t gold, 129 g/t silver, 9.54% copper and 2.19% zinc (different samples). Where best exposed, this surface appears to be sulphide-bearing quartz veins within a steeply dipping shear zone. The postulated West Surface (Fig. 10) contains two anomalous samples 75 m apart that because of the their locations and the local topography cannot be part of the Central Surface. These three zones are as yet poorly delineated, but are supported by historical drill information. GPS accuracy is poor in the Lucky Jim area possibly because of tree cover and possibly because of proximity to the edge of UTM Zone 9.

Plate 3: Pyrrhotite-chalcopyrite-pyrite-?actinolite-?diopside apparent skarn; main mineralized zone, Lucky Jim

6.3 Boyes Creek to Adam West

The highest copper values collected in 2019 came from 5 to 15 cm wide, easterly trending, subvertical sulphide (bornite-chalcopyrite-pyrite)-quartz veins which crop out along Boyes Creek (Fig. 11; Plate 4). Copper values up to 38.6% and silver values up to 167 g/t were obtained during the 2019 prospecting program. This easterly Boyes Creek trend appears to be at least 900 m long, having been extended by the 2019 discovery of new showings on new logging roads (Fig. 11).

Mineralization at Adam West occurs in amygdules and fractures in massive basalt. Massive, mineralized basalt at this location is overlain by an 8 m thick band of limestone, which is in turn overlain by pillowed basalt. Sampling in 2019 produced values up to 13.4% Cu. As noted previously (Leriche, 1991), all mineralization observed at surface is stratigraphically below the north-dipping limestone.

In addition to the historically recognized showings at Boyes Creek and Adam West, numerous samples collected between the two showings and northwest of Adam West (a distance of 2.5 km) returned in excess of 0.25% Cu (Fig. 11). It will be important to determine the true distribution of copper mineralization in this large area.

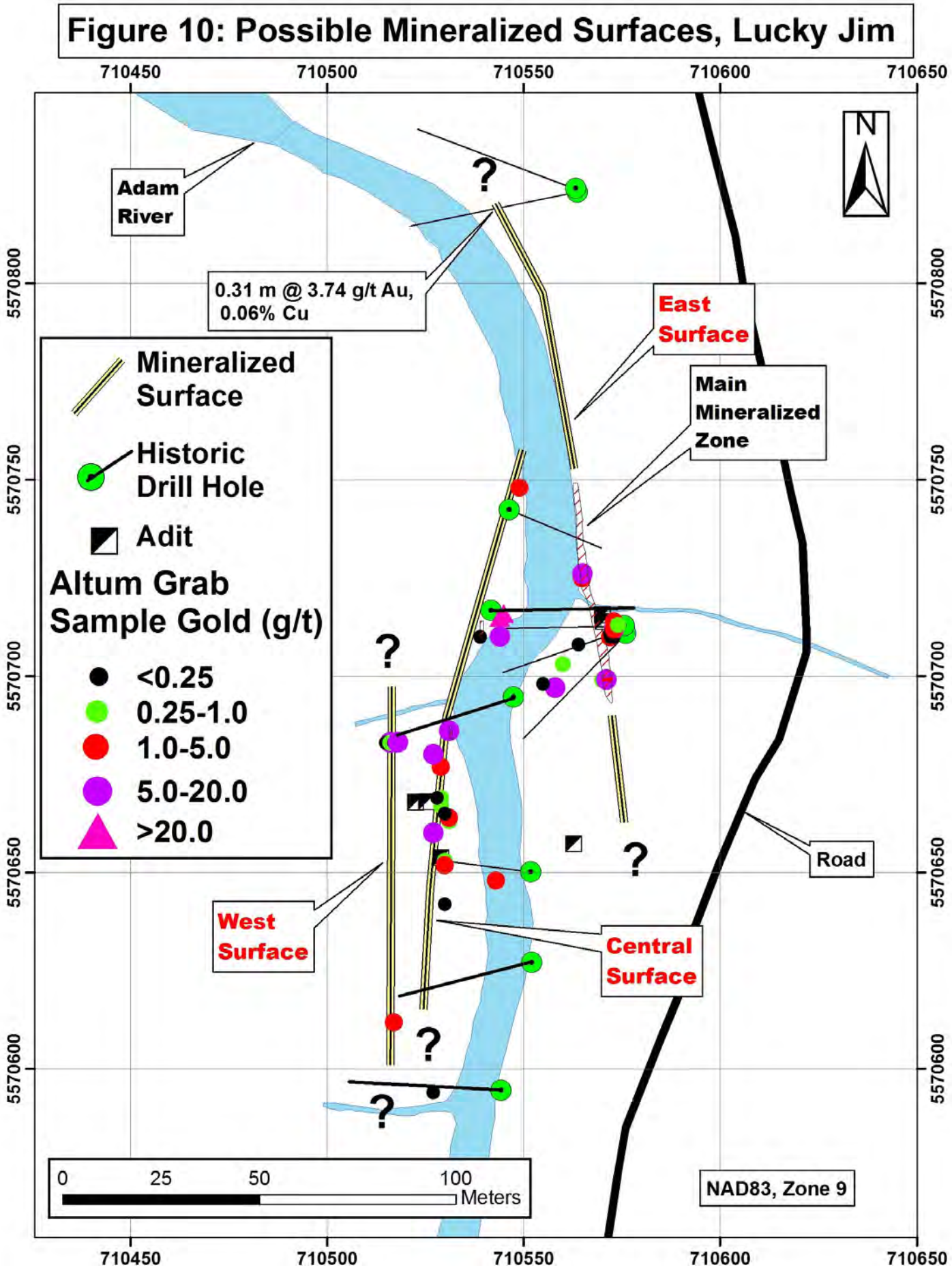
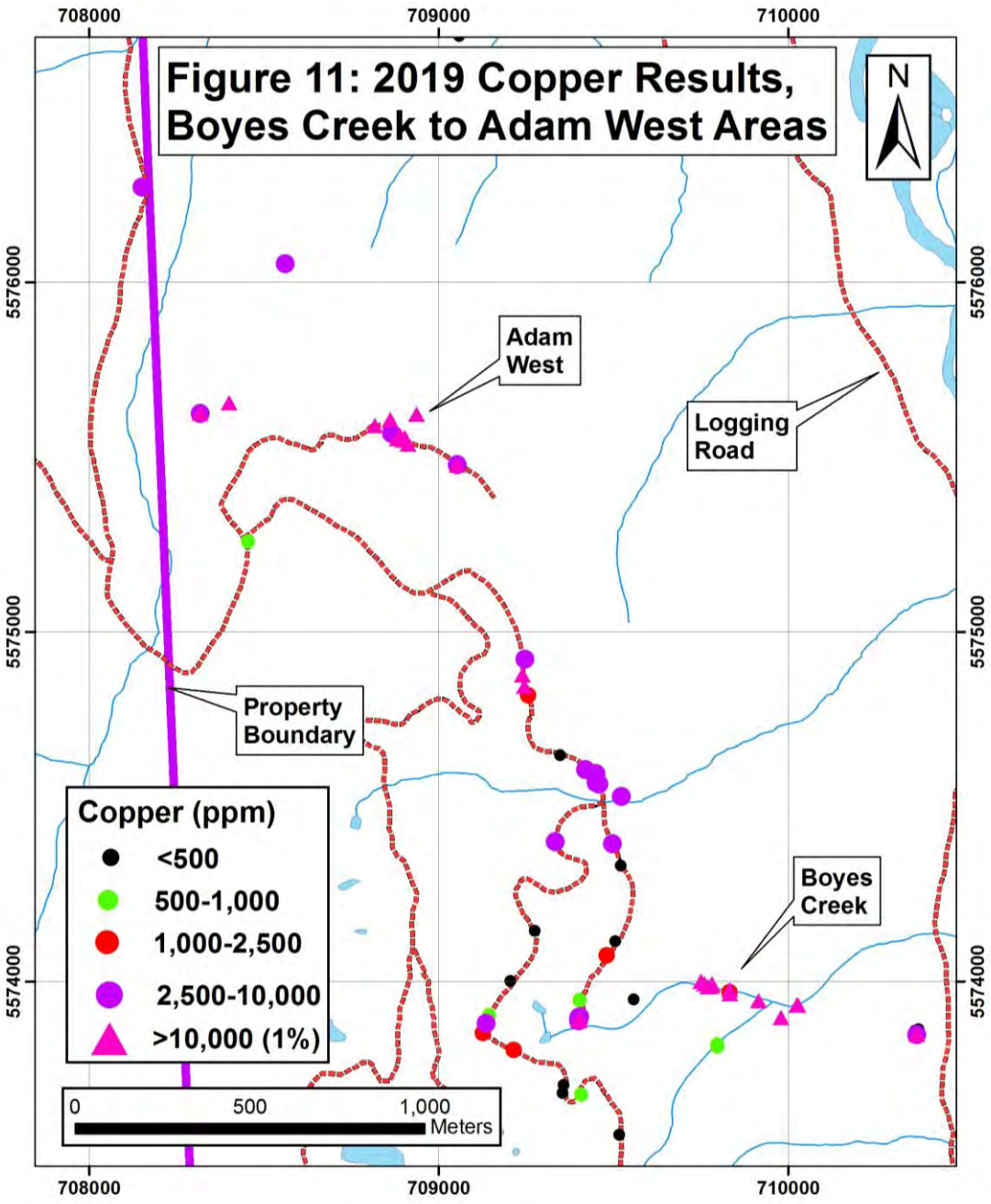


Figure 10: Possible Mineralized Surfaces, Lucky Jim
710450
710500
710550
710600
710650
5570800
5570750
5570700
5570650
5570600
N
Adam River
0.31 m @ 3.74 g/t Au, 0.06% Cu
East Surface
Main Mineralized Zone
Mineralized Surface
Historic Drill Hole
Adit
Altum Grab Sample Gold (g/t)
<0.25
0.25-1.0
1.0-5.0
5.0-20.0
>20.0
Road
West Surface
Central Surface
0
25
50
100
Meters
NAD83, Zone 9



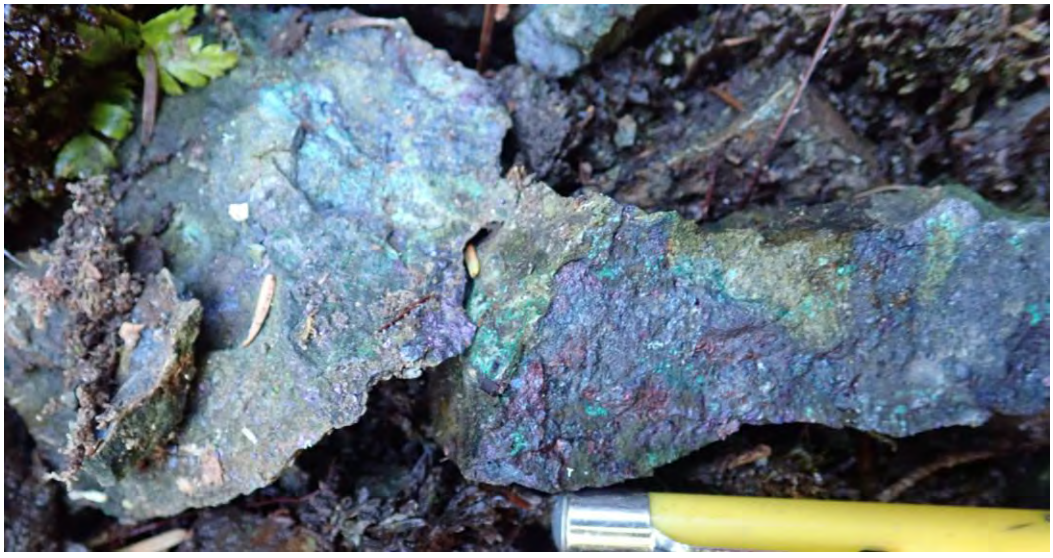


Plate 4: Bornite-chalcopyrite-rich Vein, Boyes Creek

6.4 Eloise

The Eloise showings occur in the southeast corner of the Property. Several historical trenches and small pits contain copper mineralization in fractures in basalt, with a maximum returned copper value of 2.79%. Anomalous copper occurs over a length of 300 m along Lois Creek (Fig. 8). Copper-bearing fractures trend both southeast and northeast. Outcrop is sparse, so the true extent of this zone is difficult to delineate; also, only one day was spent in this area. Several thin (1 m) beds of sandy limestone occur interbedded with the basalt. Pyrite occurs in some of the sediments, but copper mineralization is restricted to the basalt.

6.5 Soil Geochemistry

A 63-sample soil survey was conducted over the Lucky Jim area in 2019 (Setterfield, 2020). Samples were collected from the B horizon at depths varying from 1 cm to 1 m, typically in the 10 to 20 cm range. Results from the survey were somewhat equivocal; the highest gold value (360 ppb; Fig. 12) came from a sample adjacent to the main mineralized zone (Fig. 10). This sample also had the second highest arsenic and the second highest copper values. The second highest gold value from the survey, on the second line from the south (Fig. 12) could potentially reflect the extension of the eastern mineralized surface at Lucky Jim (compare figures 10 and 12). It proved impossible to collect a soil sample close to the rock sample which returned 69.4 g/t Au, but soil samples that were collected proximal to the central mineralized surface did not have anomalous gold. Thus the usefulness of this particular survey is still a matter for debate.

6.7 Airborne Magnetic Survey

Peter E. Walcott and Associates flew an airborne magnetic survey over the Property in June, 2019 (Walcott, 2019b). A total of 361 line km was flown on east-west lines with a line spacing of 100 m. Figure 13 is a map of Total Magnetic Intensity (TMI) for the Property. The Island Plutonic Suite is an area of moderate intensity magnetics in the northeast part of the Property, bordered to the west by a zone of low magnetics which roughly corresponds to the Quatsino Formation limestone. The Karmutsen Formation basalt has a highly variable magnetic signature. The basalt shows a strong magnetic response in the northwest and southeast parts of the Property, but only a low to moderate magnetic signature in the southwest quarter of the Property. Interestingly, the most copper-rich parts of the Property (Boyes Creek, Adam West, Eloise, etc) are associated with basalt that has a strong magnetic response. The reason for this, if any, is unclear. There is a hint in the TMI data that the Adam River runs along a fault. This is particularly the case in the south part of the Property, where basalts with a strong magnetic response east of the river are juxtaposed against basalts with a weak magnetic response west of the river.

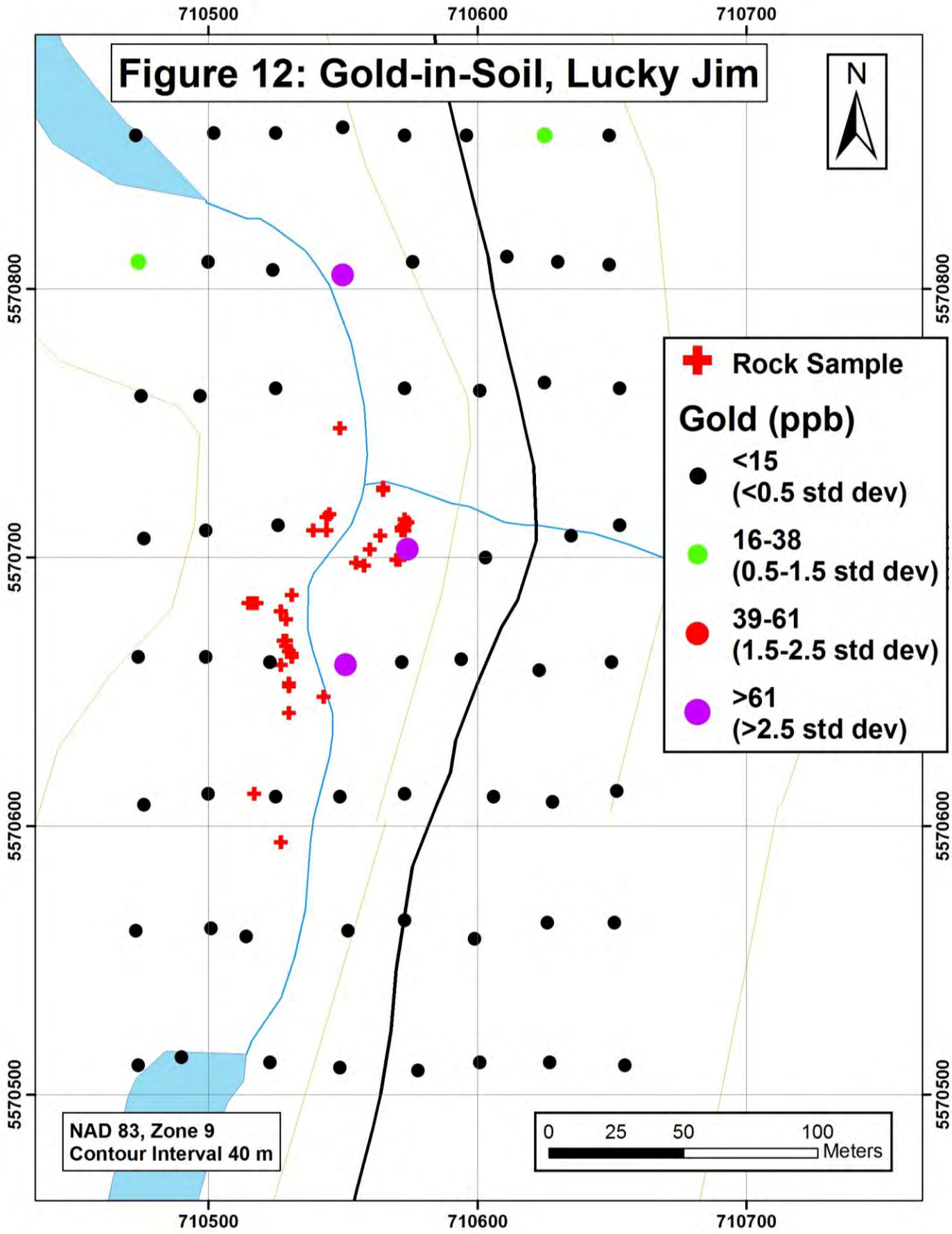


Figure 12: Gold-in-Soil, Lucky Jim
N
710500
710600
710700
5570800
5570700
5570600
5570500
Rock Sample
Gold (ppb)
<15
(<0.5 std dev)
16-38
(0.5-1.5 std dev)
39-61
(1.5-2.5 std dev)
>61
(>2.5 std dev)
NAD 83, Zone 9
Contour Interval 40 m
0 25 50 100
Meters

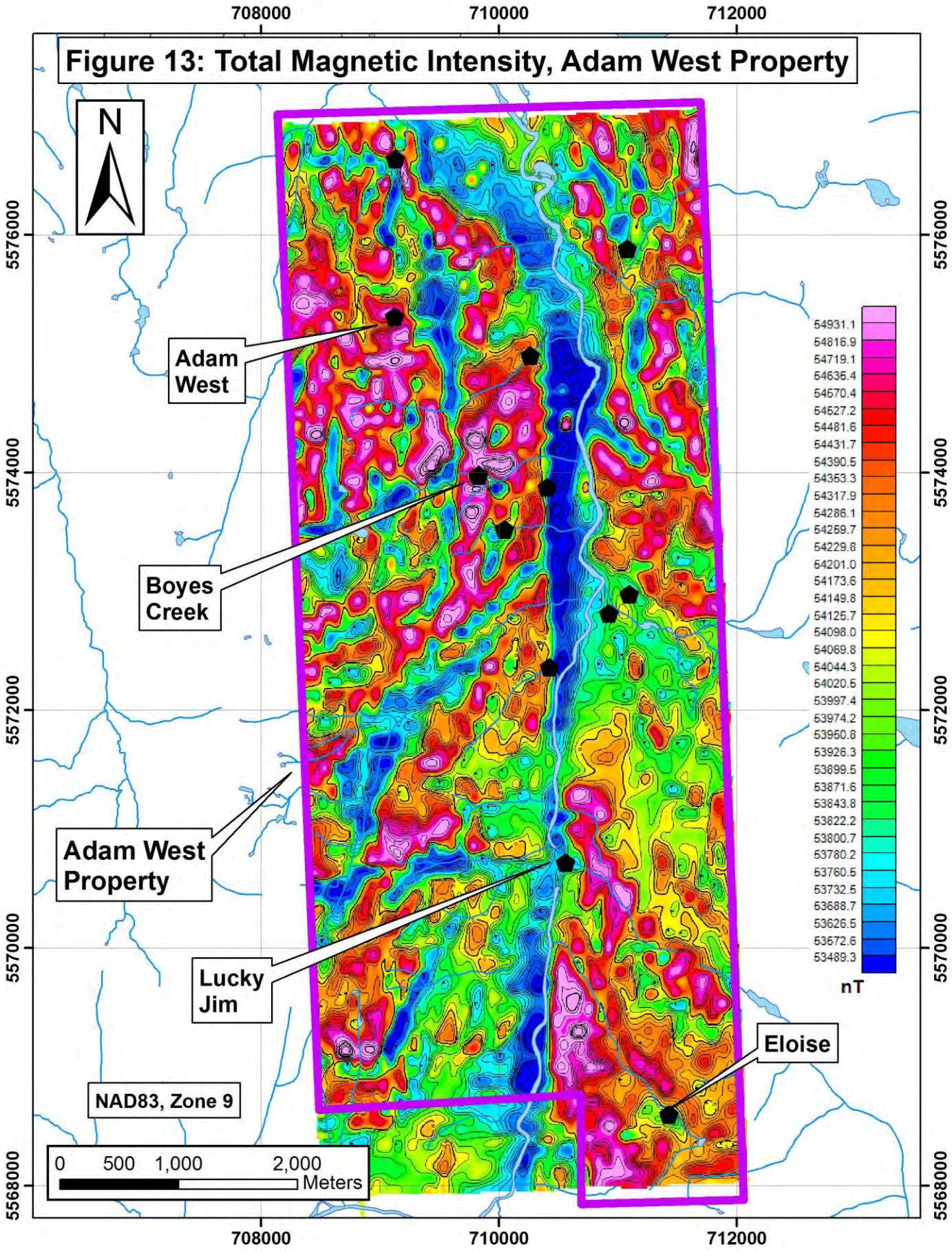


Figure 13: Total Magnetic Intensity, Adam West Property
N
708000
710000
712000
5576000
5574000
5572000
5570000
5568000
Adam West
Boyes Creek
Adam West Property
Lucky Jim
Eloise
54931.1
54816.9
54719.1
54635.4
54570.4
54527.2
54481.6
54431.7
54390.5
54353.3
54317.9
54286.1
54259.7
54229.8
54201.0
54173.6
54149.8
54125.7
54098.0
54069.8
54044.3
54020.5
53997.4
53974.2
53950.8
53926.3
53899.5
53871.6
53843.8
53822.2
53800.7
53780.2
53760.5
53732.5
53688.7
53626.5
53572.6
53489.3
nT
NAD83, Zone 9
0 500 1,000 2,000
Meters

7.0 2020 EXPLORATION BY ALTUM

7.1 General

Twelve days were spent at the Adam West Property by geologist Katarina Bjorkman and prospector Jessica Bjorkman from Bjorkman Prospecting and five by geologist Tom Setterfield. The team was based out of cabins near the junction of Highway 19 and the Sayward Road. The goals of the program were to improve the geological understanding of selected mineral occurrences, improve the spatial accuracy of important data collected in 2019 and to conduct geological reconnaissance and explore for new mineralization on the newly staked ground. Locational data was collected using Arrow 100 high precision GPS receivers. A soil survey was completed over the Adam West to Boyes Creek area by Aztec Geoscience Inc.

A total of 105 rock samples (plus four blanks) was collected on the Property; sample locations are shown on Map 2 and copper and gold values are shown on Map 3. The soil survey comprised 200 samples; locations are plotted on Map 4 and copper results are shown on Map 5. Rock sample descriptions and key assays are provided in Appendix A and Certificates of Assay in Appendix B. Appendix C contains soil sample information. Rock sampling included insertion of blanks into the stream of samples for chemical analysis. Every twentieth sample was a blank. Rock samples were delivered by the Bjorkmans to ALS Global's laboratory in Vancouver, where they were processed. Analysis for gold was completed by fire assay and for other elements by ICP analysis. Gold results varied from below detection to a high of 16.55 g/t, silver from below detection to 144 g/t, copper from 56 ppm to 46.4%, lead from below detection to 36 ppm and zinc from 2 ppm to 0.96%. Soil samples were delivered to Aztec Geoscience Inc. in Comox, where they were dried at ambient temperatures for nine to twelve days, sieved through a 4 mm mesh screen and analyzed with a C Series Vanta^{TM} handheld XRF (X-Ray Fluorescence) analyzer. Copper was the main element of interest; results ranged from below detection to 548 ppm.

7.2 Property Geology

Figure 14 illustrates the distribution of rock types observed on the Property in 2019 and 2020. The regional mapping of the BCGS appears to be reasonably good; the western contact of the Island Plutonic Suite is fairly accurate, and the north-trending band of Quatsino Formation limestone does exist, albeit not exactly where shown by the BCGS. The western part of the Property is dominated by Karmutsen Formation basalt. Figure 15 is a map of interpreted geology which also shows the main mineralization features presently recognized on the Property.

The Property is dominated by the Karmutsen Formation; this formation in turn is dominated by massive basalt, with local pillowed basalt, plagioclase-porphyritic basalt/andesite and minor interbedded limestone. Most jointing and bedding planes dip shallowly to the northeast. Karmutsen Formation basalt is overlain by limestone of the Quatsino Formation which is intruded in the east by granodiorite to quartz diorite of the Island Plutonic Suite (Figs. 14 and 15). Lithologies are summarized below.

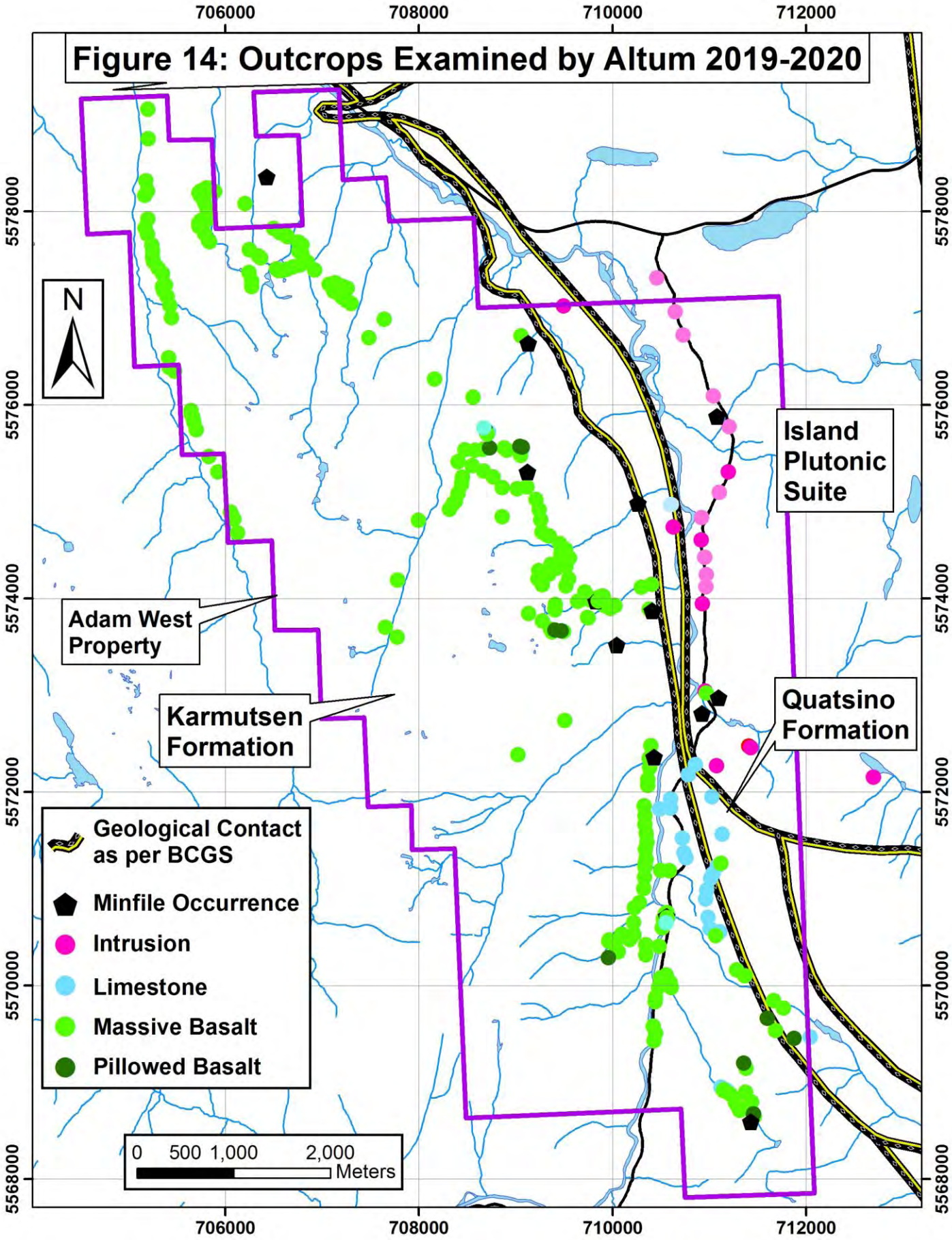


Figure 14: Outcrops Examined by Altum 2019-2020
706000
708000
710000
712000
5578000
5576000
5574000
5572000
5570000
5568000
N
Island Plutonic Suite
Adam West Property
Karmutsen Formation
Quatsino Formation
Geological Contact as per BCGS
Minfile Occurrence
Intrusion
Limestone
Massive Basalt
Pillowed Basalt
0 500 1,000 2,000
Meters

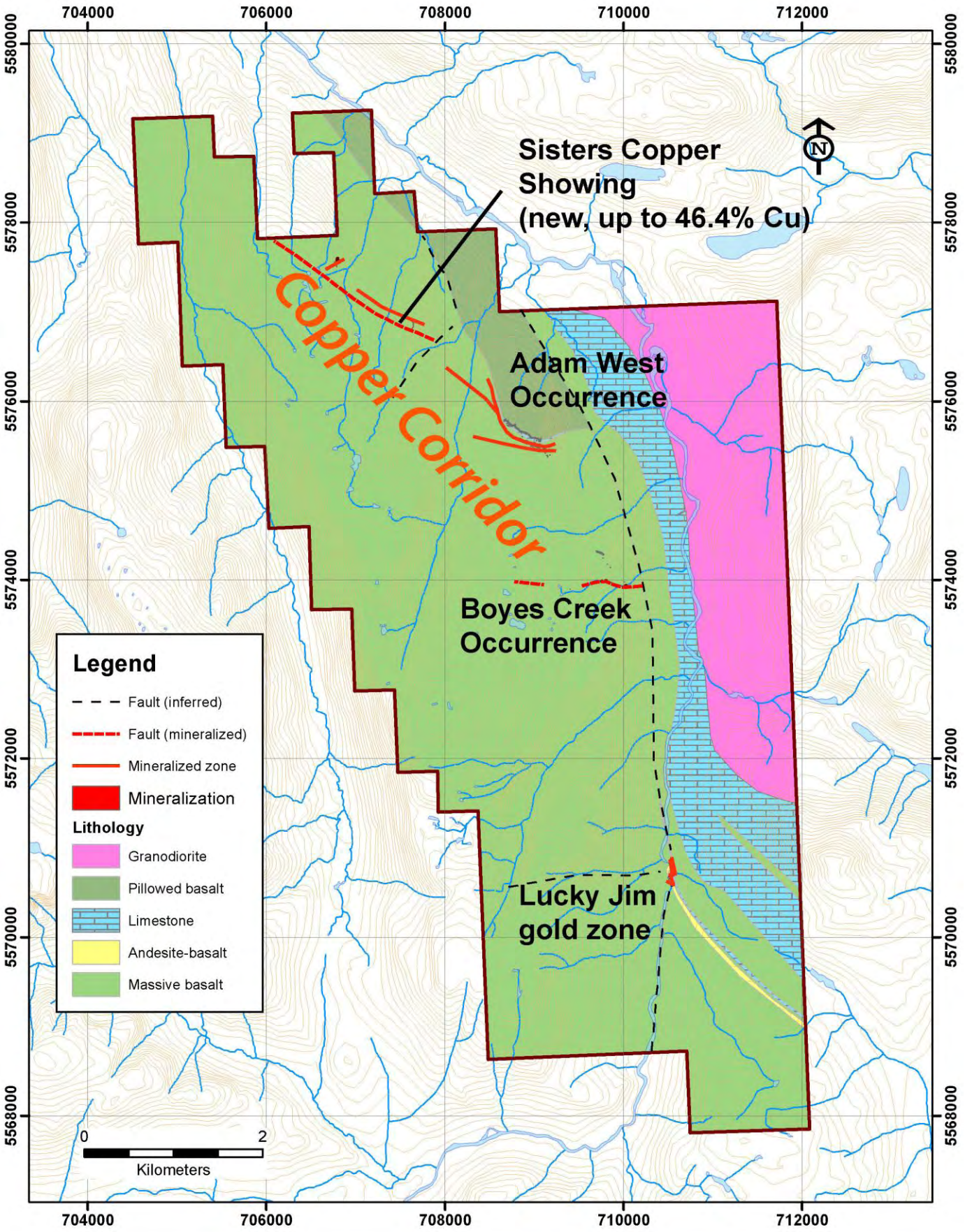


Figure 15: Geological Interpretation Map of the Adam West Property

Massive basalt is the dominant lithology encountered on the property, and is the host rock for the majority of the mineralization. Basalt flows vary in thickness from one to several meters. The basalt is commonly fine-grained to aphanitic and dark grey-green. Flow textures vary between amygdaloidal (Plate 5) and porphyritic, where plagioclase and pyroxene phenocrysts are concentrated at the base of flows and amygdules and vesicles concentrated near the tops. Occasionally the tops of flows are marked by rusty dark breccia. Amygdules most commonly consist of epidote and/or quartz, with lesser calcite and zeolites. In mineralized portions, amygdules may be filled with bornite, chalcopyrite, malachite, chalcocite or pyrite-pyrrhotite. Basalt is variably magnetic with a magnetic susceptibility of 0.4 to 100 x 10^{-3} SI depending on magnetite content. Some of the mafic volcanics are lighter in colour than typical basalt and are thought to be basaltic andesite (Fig. 15).

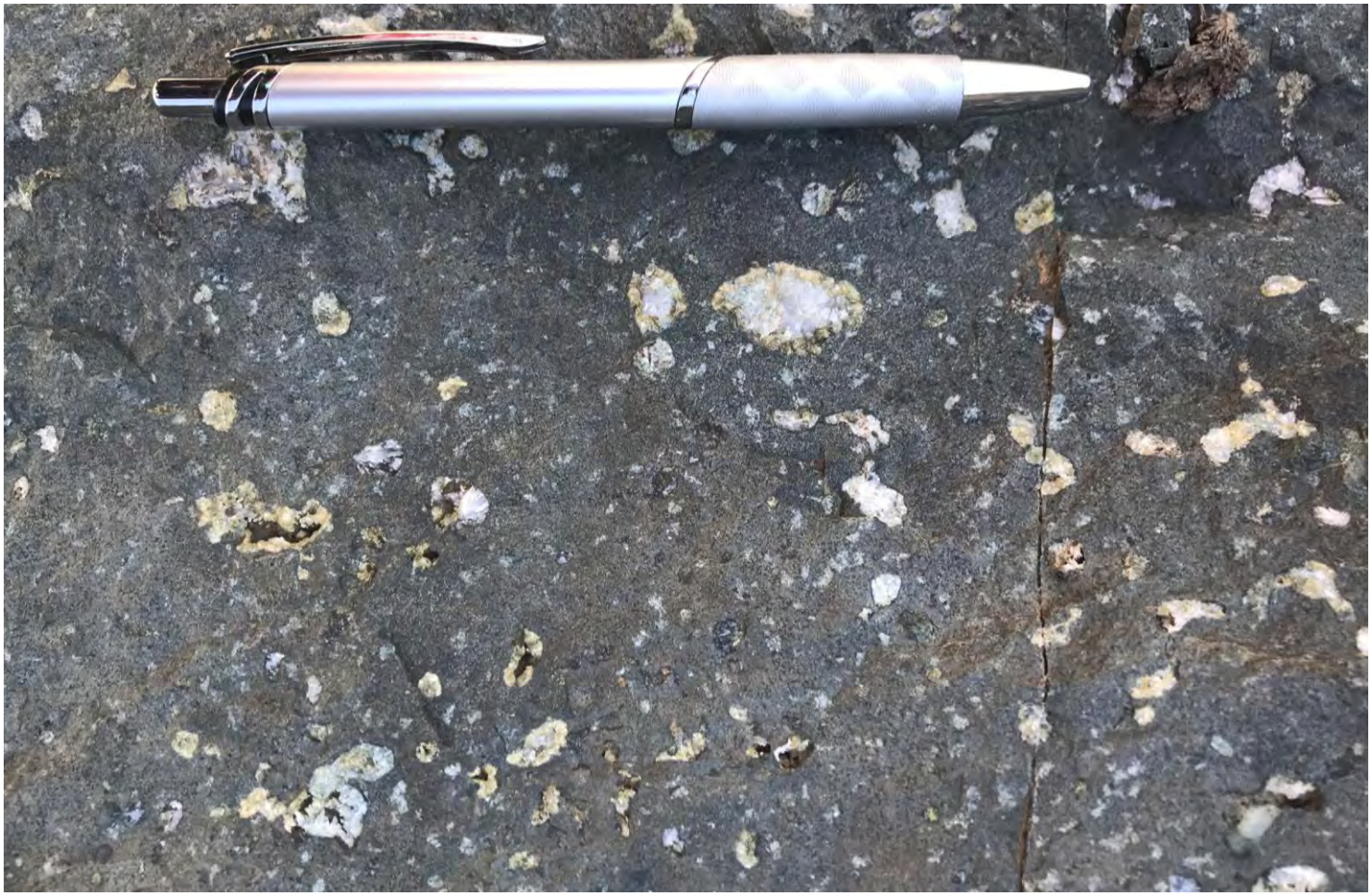


Plate 5: Amygdaloidal Basalt, North Part of Property

Pillowed basalt was mapped in several locations, most notably at Adam West (Figs. 14 and 15), where it forms a prominent ridge above limestone. In some instances pillows are intermixed with pillow breccia (Plate 6).

Limestone occurs principally within the Quatsino Formation, where it overlies the basalt and is cut by granodiorite. It also occurs as thin, 2 to12 m thick beds within the basalt sequence. At Lucky Jim and the Adam West showing, limestone caps the mineralized basalt host. The limestone is light grey, and banded, laminated or massive. In some locations it is silicified and pyritic, but so far, no mineralization has been discovered within limestone.

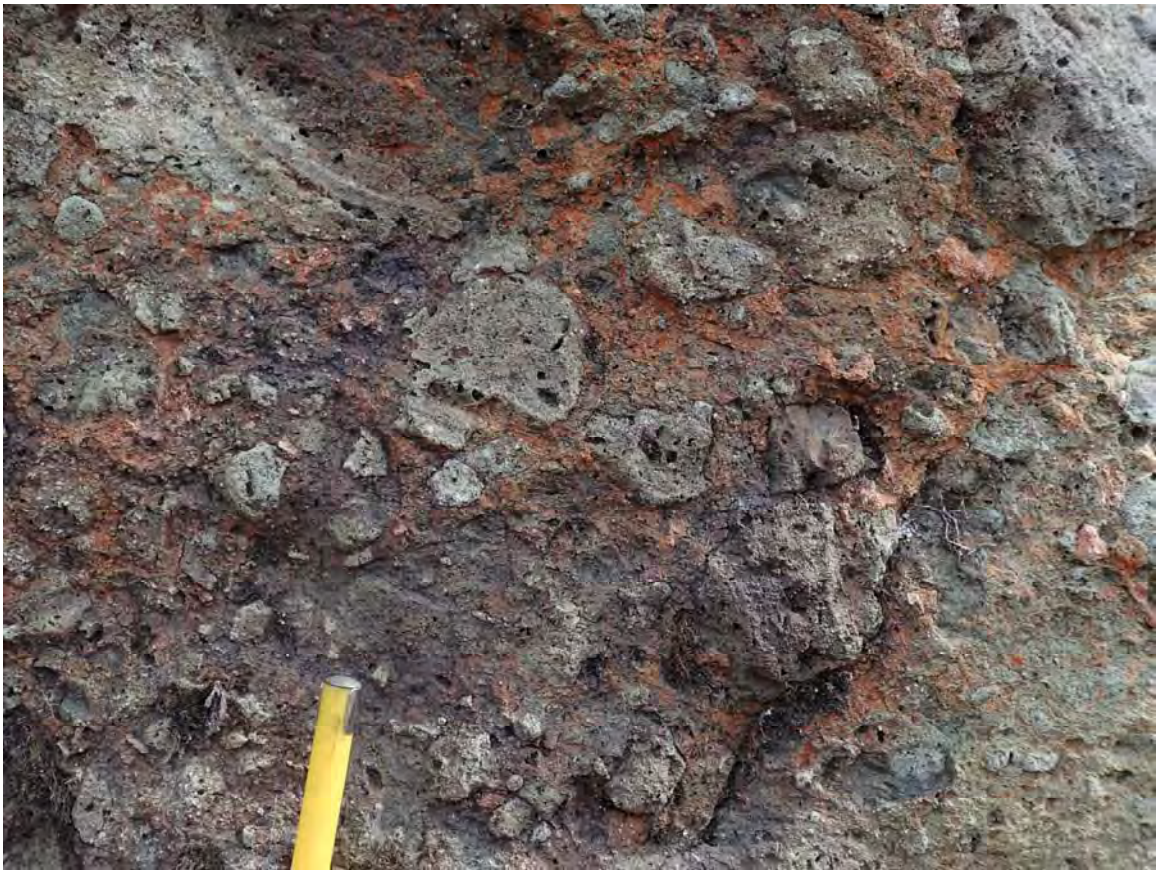


Plate 6: Pillow Breccia, Adam West Showing

The Island Plutonic Suite was examined briefly in 2019. It consists of medium-grained granodiorite to quartz diorite and occurs in the eastern portion of the Property (Figs. 14 and 15).

Most of the showings visited on the Property are localized along structures. Some of these mineralized structures have been offset by later fault and shear zones. Therefore, understanding the structural history is imperative to understanding controls on mineralization and for predicting the location of additional mineralization. Property-wide faults herein are inferred based on lithology, magnetic maps and local field observations. Granodiorite is magnetic and basalt is variably magnetic, whereas limestone is non-magnetic. Therefore, lithology generally corresponds with the magnetic signature on the property scale. However, magnetic lows trending east-west and northeast-southwest transect basalt (Fig. 13), and may be caused by alteration associated with faults or changes in primary lithologies.

7.3 Prospecting Results

7.3.1 General

Updated maps of copper and gold distribution on the Property are presented in figures 16 and 17. Prospecting on the newly staked ground in the northwest part of the Property revealed widespread anomalous copper, including a significant new occurrence called Sisters Copper (Fig. 16; see below). Prospecting from the last two years has defined a >5 km long zone from Boyes Creek in the southeast to the northwest corner of the Property with consistently anomalous copper (Fig. 16). Of the 152 grab samples collected in this zone, 102 had >0.25% Cu and 32 had >2.5% Cu. The property-wide map of gold distribution (Fig. 17) shows that significant gold is restricted to the Lucky Jim area. The bulk of the anomalous silver noted in 2020 was from the Sisters Copper showing (see below).

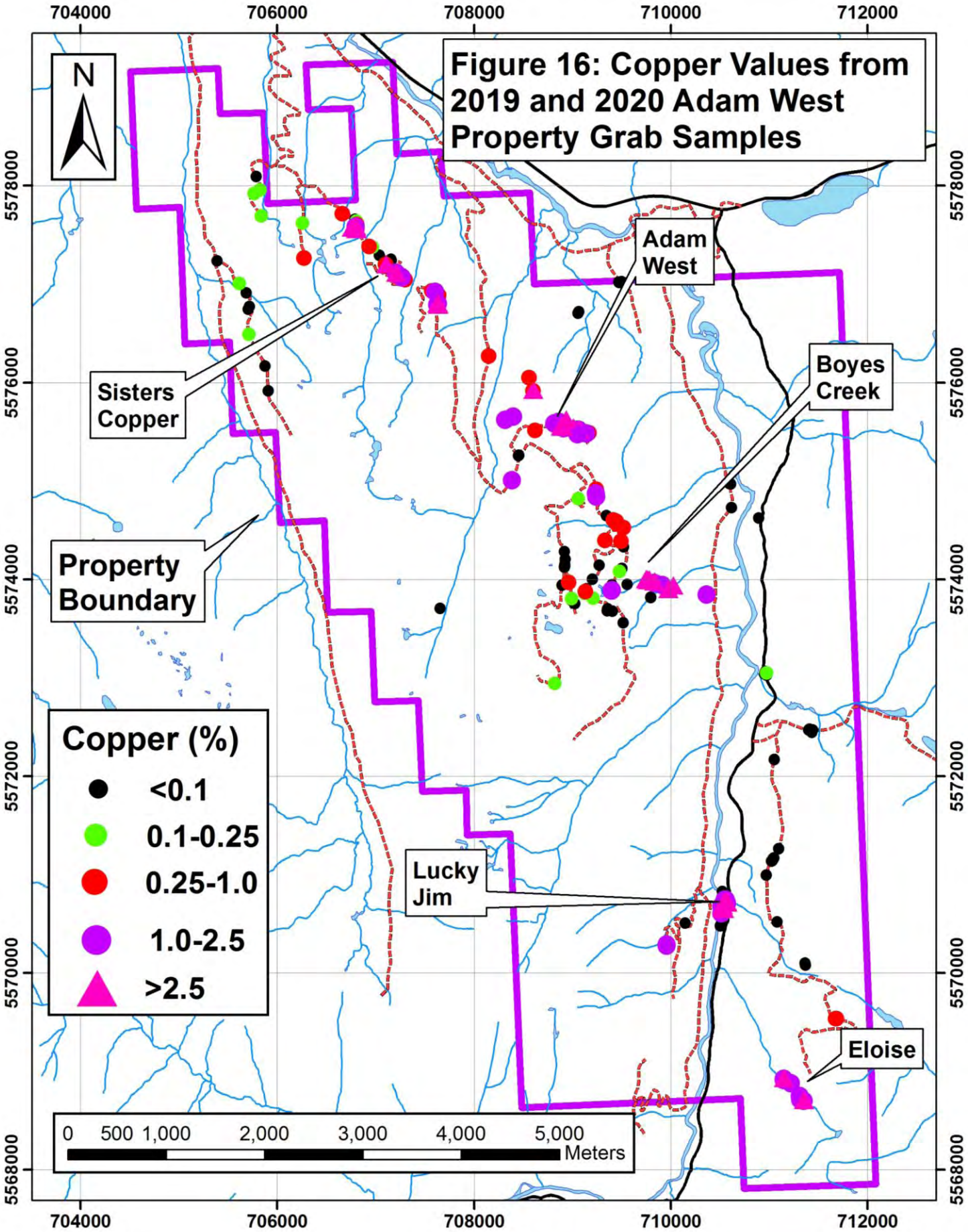


Figure 16: Copper Values from 2019 and 2020 Adam West Property Grab Samples
N
Adam West
Boyes Creek
Sisters Copper
Property Boundary
Lucky Jim
Eloise
Copper (%)
<0.1
0.1-0.25
0.25-1.0
1.0-2.5
>2.5
0 500 1,000 2,000 3,000 4,000 5,000
Meters
704000
706000
708000
710000
712000
5578000
5576000
5574000
5572000
5570000
5568000

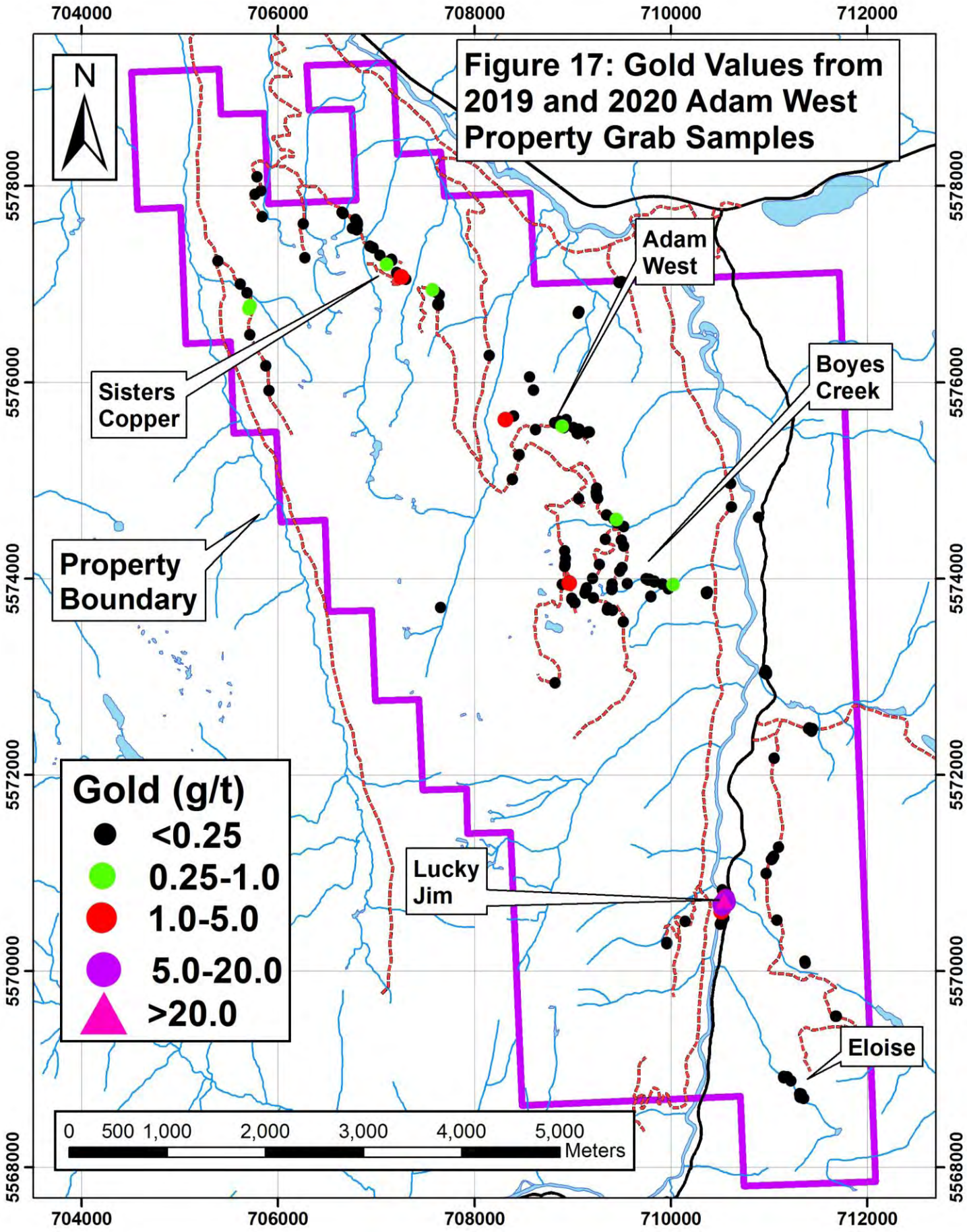


Figure 17: Gold Values from 2019 and 2020 Adam West Property Grab Samples
N
Adam West
Boyes Creek
Sisters Copper
Property Boundary
Lucky Jim
Eloise
Gold (g/t)
<0.25
0.25-1.0
1.0-5.0
5.0-20.0
>20.0
0 500 1,000 2,000 3,000 4,000 5,000
Meters
704000
706000
708000
710000
712000
5578000
5576000
5574000
5572000
5570000
5568000

7.3.2 Lucky Jim Au ± Ag – Cu – Zn Prospect

Three days were spent at Lucky Jim. May 11th was an orientation to the Property and showing. May 14th and 15th were spent at Lucky Jim on the west and east sides of the Adam River respectively. The main part of the showing is on the east side of the Adam River, such that the northern portion lies within the Adam River. Mineralization consists of a rusty zone of pyrite-pyrrhotite-chalcopyrite (Plate 3) associated with quartz veins within strongly altered basalt or andesite. The mineralization trends ~345º, and is 2-4 m wide by 70 m long. This zone lies at a faulted contact with laminated limestone. The fault dips steeply west at 88º toward 270º (88/270), similar to the main trend of quartz veins (80/260) and the limestone bedding also dips steeply west (78/272). The limestone along the length of the contact is strongly silicified by mm – cm quartz veinlets dipping northwest (33/315, 54/315, 47/315). New mapping has shown that the limestone-basalt contact is folded into a Z pattern at the scale of the showing area (Fig. 18). The folding interpretation is supported by measured changes in the dip of limestone, and by small scale folding. This is consistent with dextral shearing along north-trending faults and shear zones within and along the Adam River. This folding appears to have repeated the mineralization, which is expressed at the limestone contact on the east and west shores of the Adam River.

On the west side of the Adam River across from the main adit, steep limestone beds are folded into a contact with basalt, which is marked by a steep north-trending fault. East of the fault, veins dipping 36/004 in basalt have minor pyrite, chalcopyrite and gold. This fault likely continues southward to a strongly altered shear zone that runs from the folded limestone contact within massive to amygdaloidal basalt and andesite southward to within the Adam River. This fault was historically trenched. It is strongly quartz-chlorite-carbonate altered with pyrite and chalcopyrite disseminated and as stringers and within veinlets. The fault zone is ~2-3 m wide and preserves C-S-C' structures that support dextral displacement. The steeply dipping dextral fault likely continues southward into the Adam River, where there is strong evidence for faulting dipping 80/275 within plagioclase porphyritic basaltic andesite. Subhorizontal to north dipping (17/002) grooves on the fault surface suggest dextral displacement.

The fault on the west side of the Adam River splays to the northwest in two locations. At the north end, mineralization is bounded to the north by a reverse fault oriented at 75/220 south of the first creek. Pyrite and chalcopyrite are associated with the splays to the south. Similarly, at the south end of the mapping, there is a strongly sheared zone (50/080) within chlorite, silica and carbonate altered basalt. Fine pyrite and chalcopyrite are concentrated along quartz veinlets within the shear. The northern extent of this zone is marked sharply by a reverse fault 46/075. There is potentially a fault that separates the mineralized splay at the north from the unmineralized basalt outcrop in the creek. This coincides with the magnetic low trending westward from the Adam River. However, slickensides in basalt to the north are the only evidence encountered for such a fault.

This new mapping gives a distinct interpretation for the Adam West gold zone. It suggests that the mineralization occurs within a structural dilation zone (fold) within a dextral shear zone. Likely the mineralized horizon was repeated by folding and may have experienced later displacement during continued shearing. This provides an interpretation to aid additional targeting/testing by drilling. Additional exploration to the north and south in the form of prospecting and mapping is warranted.

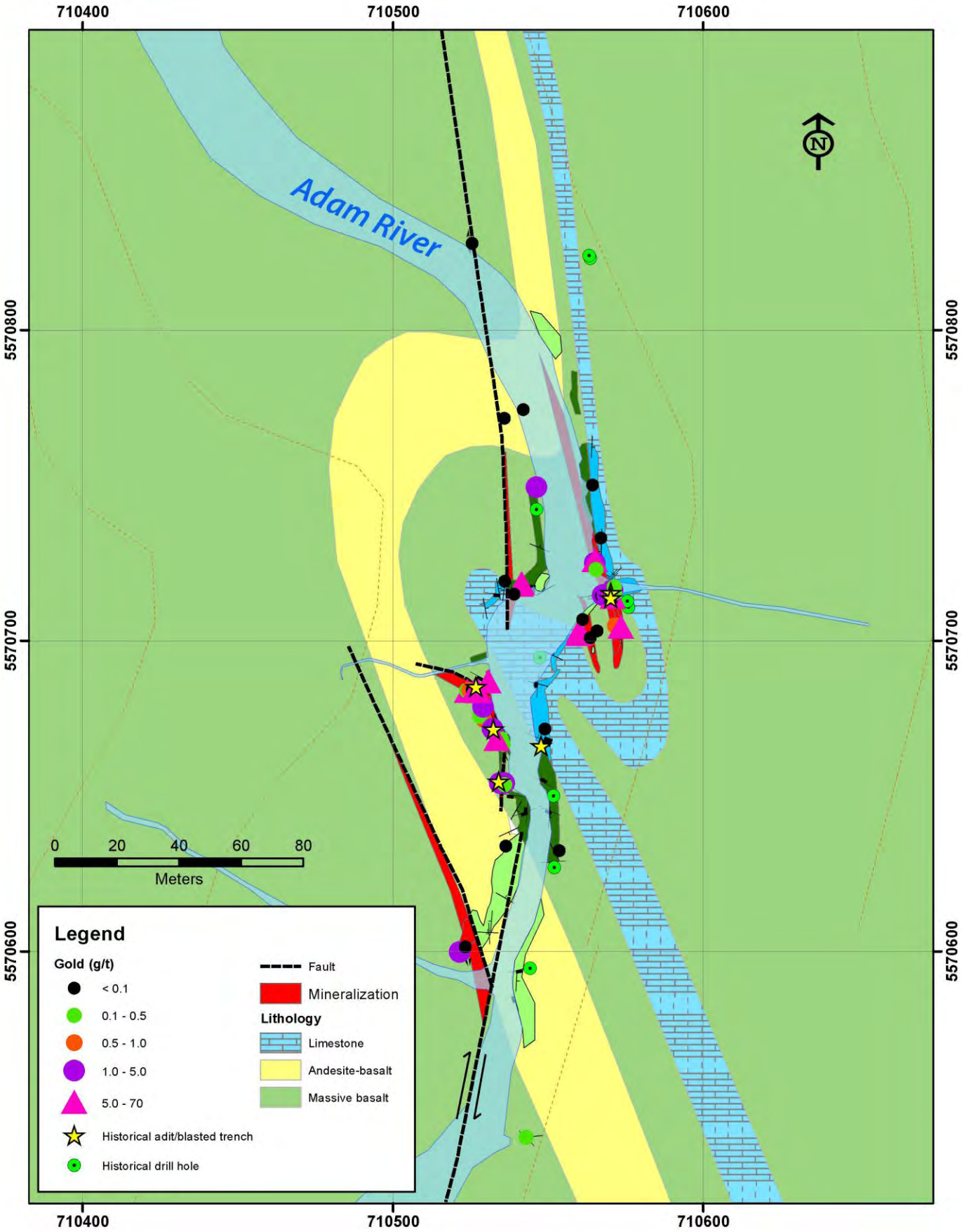


Figure 18: Geological Interpretation of the Lucky Jim Prospect

7.3.3 Boyes Creek Cu Prospect

One and a half days were spent at Boyes Creek, mapping and GPS-ing previously sampled trenches corresponding to trenches 13, 12, 9, 6 and 3 of Sharp (1969). The Boyes Creek copper showing consists of a 300 m long Cu trend that is controlled by a steeply south-dipping fault structure (Fig. 19). Copper mineralization is localized within and proximal to steeply dipping veins dominated by bornite-chalcopyrite, which range up to 25 cm thick (Plate 4). The fault is likely dextral, based on veins dipping toward 295 (Sharp, 1969), and a combination of vein and fault orientations. The structure has been partially dissected by late brittle faults dipping steeply to the west-northwest. In the western outcrop at the main trench (Trench 13), anastomosing bornite>>chalcopyrite-epidote veins <25 cm thick dip 70/185 to 80/190. These western 2019 samples returned up to 38.6% Cu. The bornite vein is hosted within dark green chloritic amygdaloidal basalt. The vein is offset by a late steep fault dipping 88/290, which itself is mineralized with bornite. The fault seems to displace the west side up with apparent sinistral offset.

Fifty meters east, a sheared 1.5 cm bornite (14.9% Cu) vein dips 60/172 (Trench 9). This occurs within an altered shear zone downstream from a waterfall. This structure could represent a “C” fabric. East of that sample, along a trench and walking trail north of a mineralized vein, a distinct shear was measured at 60/190, and records a dextral sense of displacement. The far eastern trench exposes sheared and carbonate-quartz altered basalt. Several sheared mineralized veins were measured. A cm shear at 56/257 contains chalcopyrite and malachite veinlets. Another shear at 37/347 is mineralized. Together these could reflect reverse-dextral movement. A strike slip fault with sub-horizontal fault grooves dips steeply at 82/313 and is interpreted to be late. Similarly, a shear surface with chalcopyrite and malachite dipping 63/277 may related to late movement. A 1 cm quartz-epidote-bornite-malachite vein dipping 55/197 occurs 45 m to the southwest.

7.3.4 Adam West Cu Prospect

Two days were spent at Adam West. May 13th included a brief orientation of the showing, followed by mapping to the southeast and along the limestone-basalt contact. May 17th involved following up on quartz-epidote altered outcrops thought to likely contain copper mineralization. The mapping and prospecting extended the significant copper mineralization along strike from 140 m to 750 m (Fig. 20). In general, copper mineralization is localized as bornite, chalcopyrite and malachite (Plate 7) within and along veins, faults and joints and within amygdules. Mineralization is hosted by epidote-quartz altered massive basalt flows dipping shallowly to the northeast. The flows vary in thickness from one meter to several meters. Flows are differentiated by the phenocryst and amygdule abundance, where phenocrysts concentrate at the base and amygdules at the tops. Flows also vary in grain size and magnetic susceptibility (0.5 to 70). Amygdaloidal portions tend to be more strongly epidote-quartz altered than phenocryst-rich flows and portions of flows. Approximately 12 m of laminated grey limestone caps the mineralized basalt flows; the limestone likewise dips gently toward the northeast. Limestone is in turn overlain by pillowed basalt. The lower pillow basalt comprises pillows commonly exceeding 1-2 m, which is overlain by pillows that are typically 20-40cm in diameter. The pillows are overlain by massive basalt.

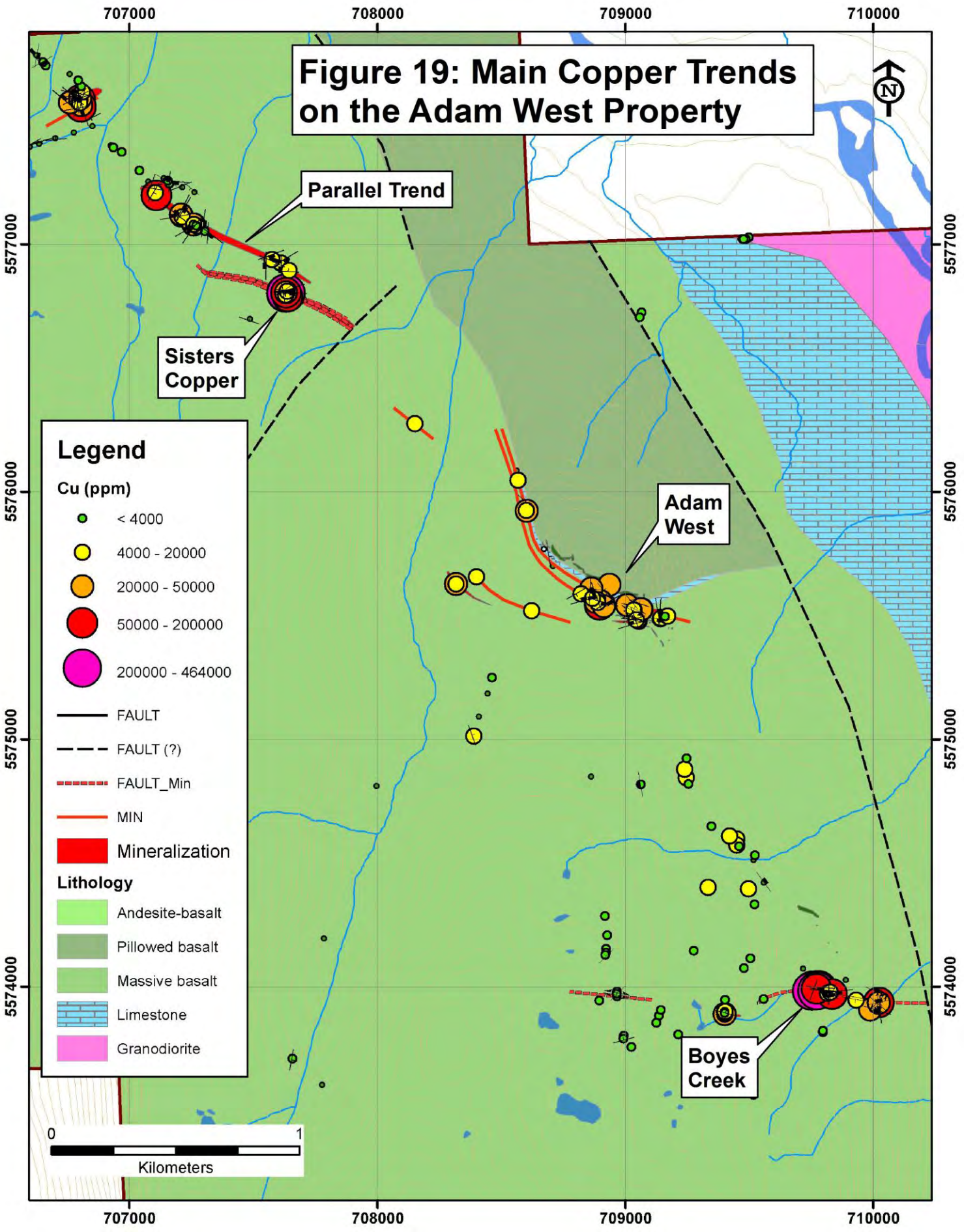


Figure 19: Main Copper Trends on the Adam West Property
Parallel Trend
Sisters Copper
Adam West
Boyes Creek
Legend
Cu (ppm)
< 4000
4000 - 20000
20000 - 50000
50000 - 200000
200000 - 464000
FAULT
FAULT (?)
FAULT_Min
MIN
Mineralization
Lithology
Andesite-basalt
Pillowed basalt
Massive basalt
Limestone
Granodiorite
0
1
Kilometers
707000
708000
709000
710000
5577000
5576000
5575000
5574000

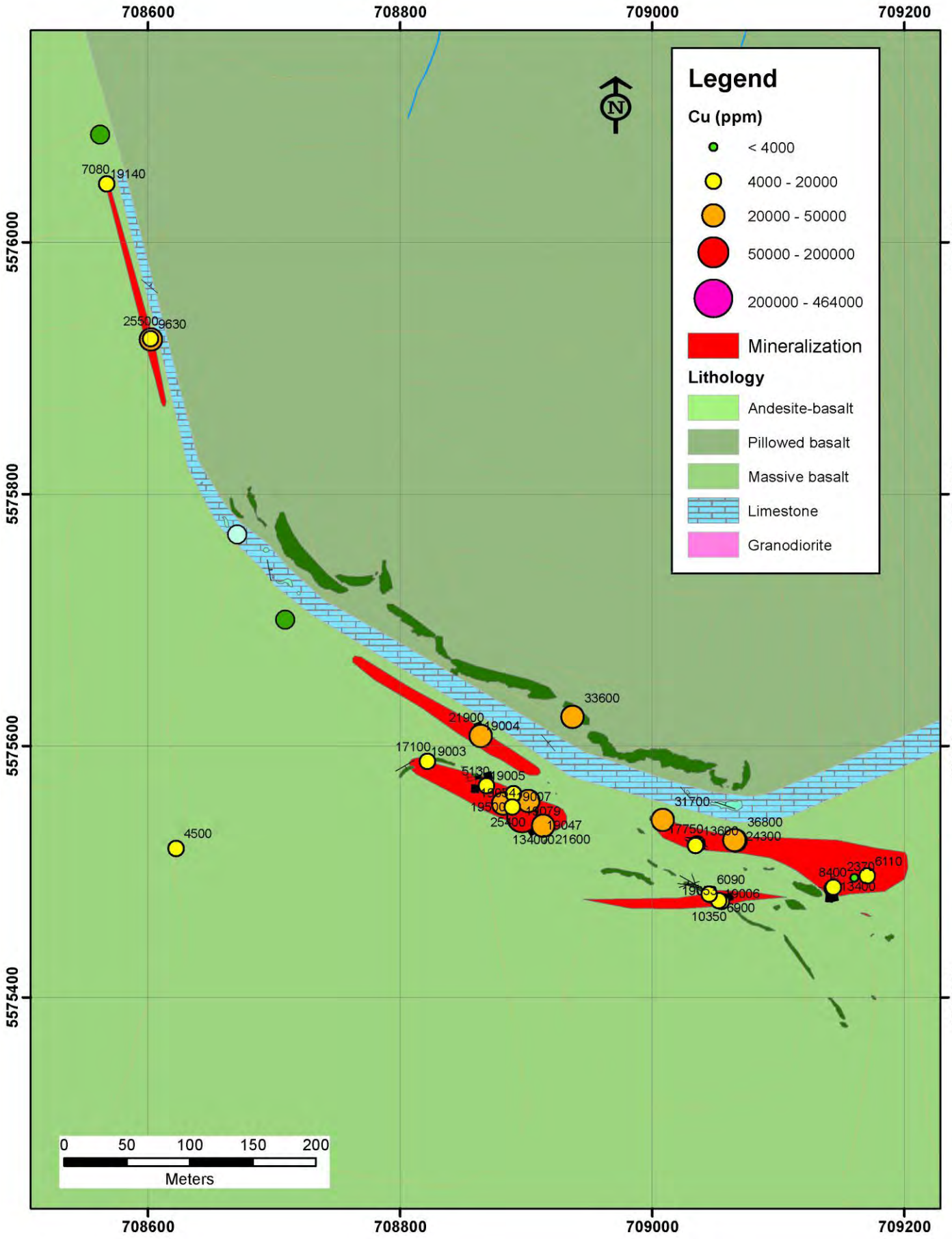


Figure 20: Geology and Copper Abundances of the Adam West Showing

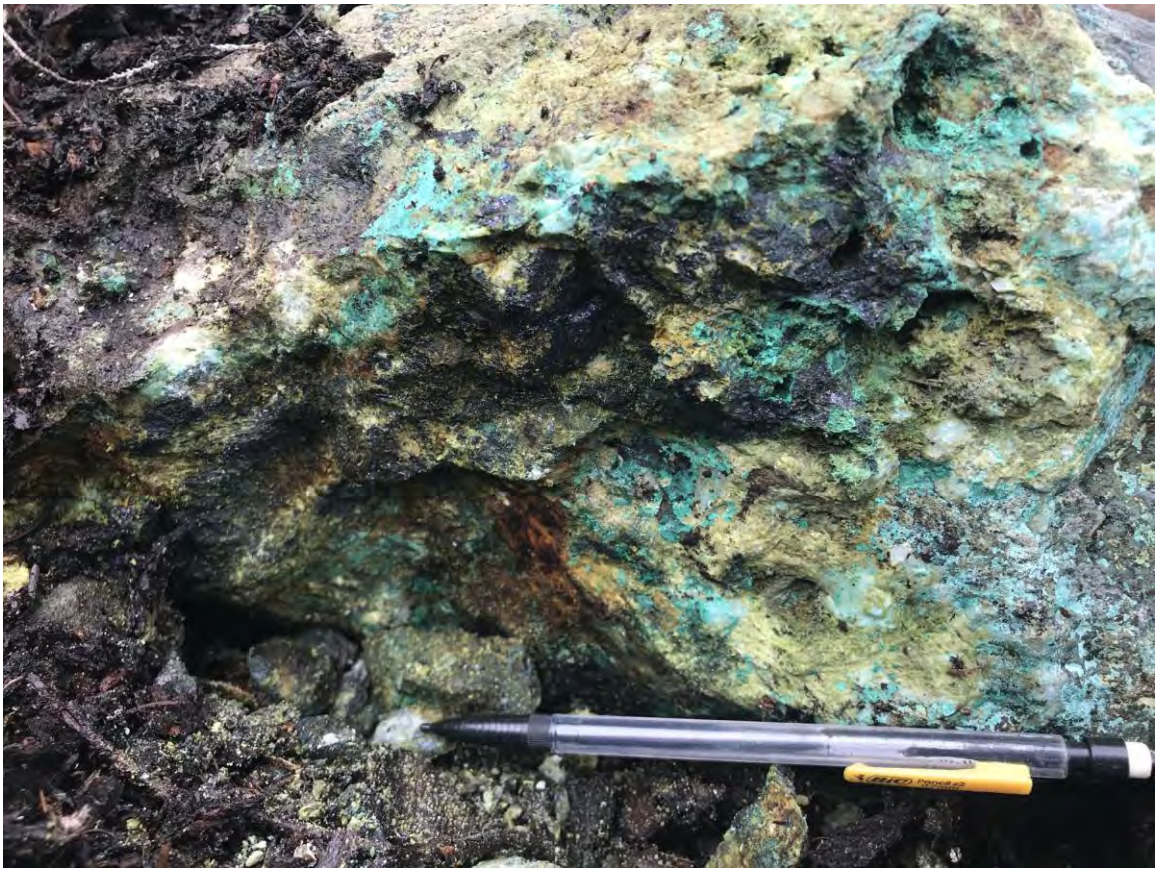


Plate 7: Altered and Mineralized Basalt, Adam West Showing

The rocks with the most bornite have been blasted to make the road, and consequently are located in and alongside the road bed. There are spectacular veins of quartz- bornite-malachite ± chalcopyrite. The exposed bedrock is less mineralized. Moreover, the veins tend to be irregular and discontinuous, and the lack of distinct orientations makes them difficult to measure, but they range from shallow to steep. Mineralized joint sets tend to be more regular and were measured where practical. Further east along the road, there is bornite-chalcopyrite-malachite mineralization associated with fault/shear zones trending east-west to west-northwest (e.g., 80/195, 70/343, 86/344, 86/004). The shears have associated epidote-quartz ± magnetite alteration. At the scale of the showing area (1 km), it appears there are two parallel zones hosting the main Cu mineralization (bornite-quartz veins in bornite-epidote altered basalt) that parallel the basalt – limestone contact, suggesting a lithological control on this mineralization. These zones appear somewhat discontinuous. Similar alteration and mineralization mineralogy suggests the shear-hosted copper mineralization is likely related to the main mineralization.

7.3.5 Sisters Copper Prospect

The Sisters Copper showing was found on the last day of the exploration program, May 27th. It was preceded by the discovery on May 24th of shallowly dipping veins in a zone trending southeast from the Linzer bornite vein in the north (not on the Property). Given the southeast trend of mineralization associated with shallow veins towards Adam West mineralization, it was a priority to test the idea of a copper trend that linked with Adam West. The mineralization associated with the Sisters showing was where predicted along trend, and exceeded expectations. It is exceptionally exposed by blasting for a new logging road on the mountain side.

The Sisters Copper showing is a 20 m wide zone (Fig. 21) with malachite, chalcopyrite and bornite on thin shears and fractures, with three main parallel mineralized shear zones. Ten grab samples were collected from this showing; copper ranged from 1.36 to 46.4% and silver from 2.7 to 144 g/t. On the southwest side, Cu mineralization is bounded from unmineralized basalt to the south by a steep shear zone dipping 73/175. The southwest shear anastomoses between 20-75 cm wide with minor malachite and bornite mineralization along veinlets and disseminated in wall rock. Ten meters to the northeast, at the core of the mineralized zone, a 1 m wide shear zone dipping 70/185 hosts the richest Cu (Plate 8). The shear zone is also anastomosing, is strongly silicified, and contains irregular semi-massive bornite veins and stringers, with abundant malachite in vuggy veins. The wallrock around the shear zone has 2-10% disseminated bornite. A secondary bornite quartz vein is 1 m east of the main shear/vein and dips 66/160. These orientations support a sinistral sense during emplacement of the veins. Sinistral faulting is further supported by horizontal chlorite slickensides (10/080; Plate 9) indicating sinistral movement on a steep fault (73/180) just southwest of the main vein. Five meters northeast of the main vein there is a third shear zone/fault. This fault dips 76/174 to 74/185, and preserves intense shearing with associated bornite and malachite along the southwest 15 cm. There are secondary (~60/170 to 60/010) and tertiary (~70/145) associated vein sets northeast of that shear. The orientations of these veins support sinistral reverse movement.

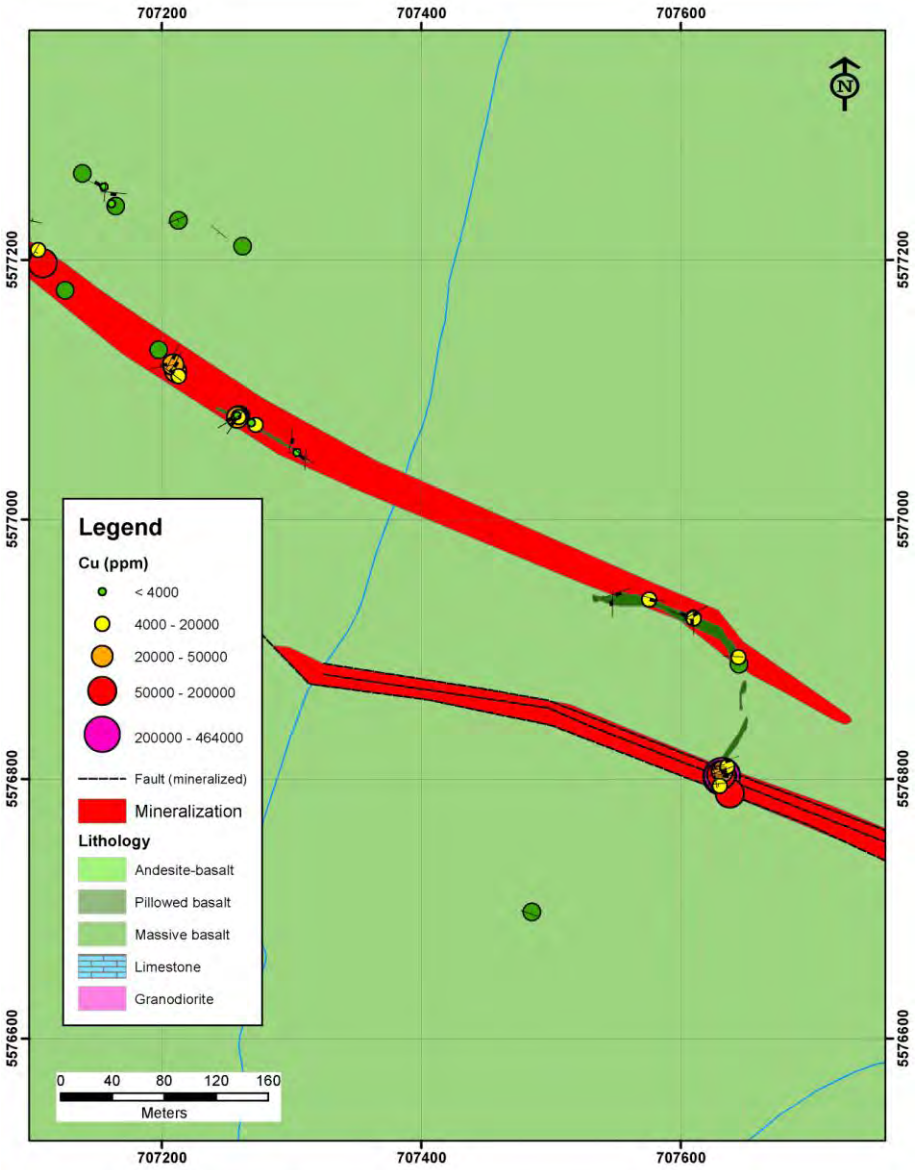


Figure 21: Geological Map of the Sisters Copper Showing

Plate 8: 1 m Wide Bornite-rich Shear Zone, Sisters Copper Showing

Plate 9: Horizontal Chlorite Slickensides, Sisters Copper Showing

A parallel associated zone 100 m north of the Sister Copper showing (Figs. 19 and 21) was traced 1.2 km to the northwest, and consists of copper mineralization (<12%) and anomalous gold values (<2.5 g/t) within and along shallow veins, especially within amygdules in epidote-quartz altered basalt. Their shallow orientation implies emplacement during compression, and may be therefore related to the bornite-bearing shear zones of the Sisters Copper. These shallow vein sets comprise dominantly quartz-K-feldspar ± epidote with <7% bornite – chalcopyrite - malachite. Local steep fault sets are also mineralized, for example, malachite within a fault zone dipping 82/120. Similar fine steep bornite veinlets occur at the north end of the mineralization, exposed by a large shifted boulder north of the road. A fault runs the length of the creek south of the northernmost area of shallow veins, and dips ~60/155. This fault appears to have offset the mineralized zone.

7.4 Soil Survey Results

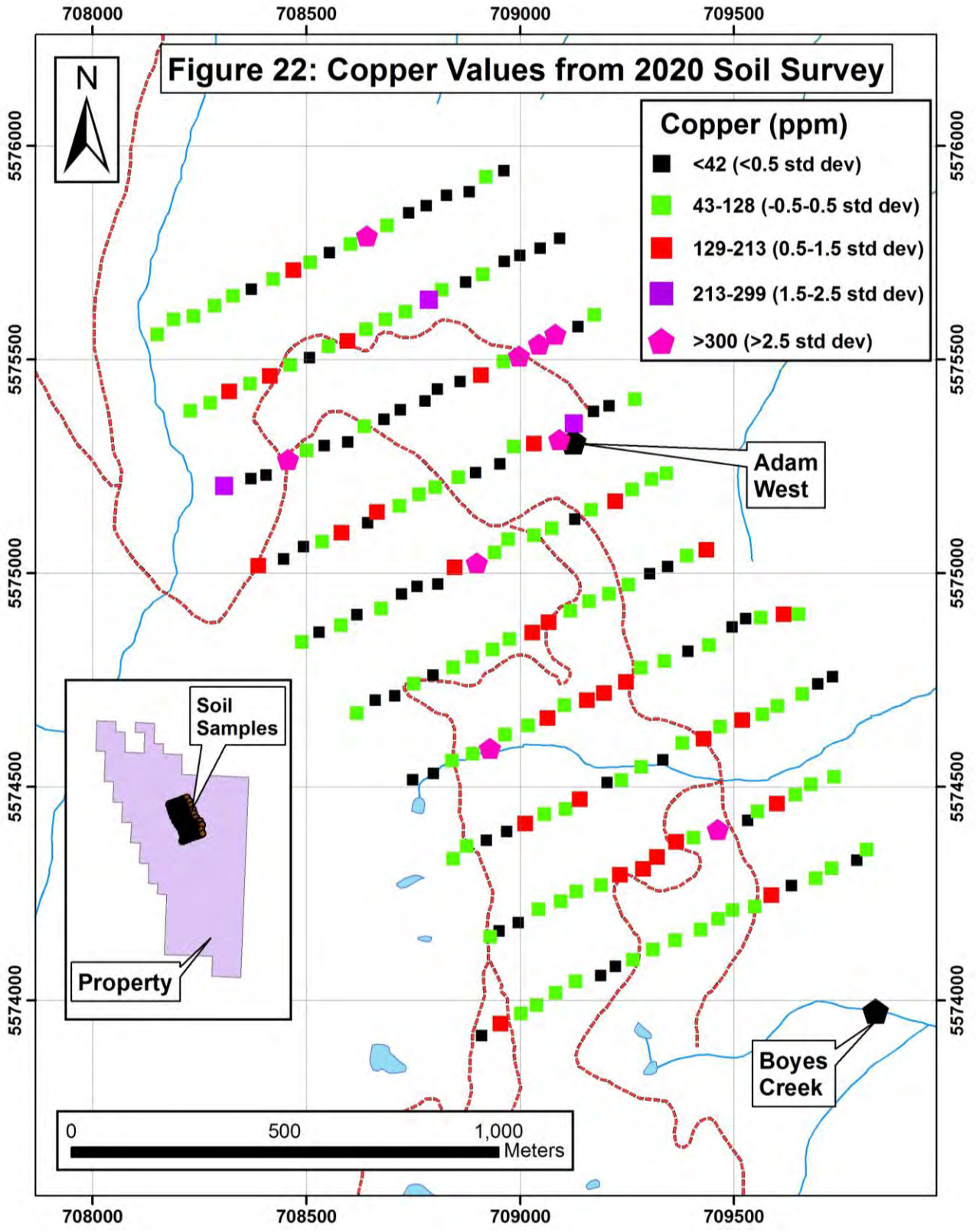
A 200-sample soil survey was conducted over the Adam West/Boyes Creek area (Fig. 22; Maps 4, 5; Appendix C). Samples were collected from the B horizon at depths varying from 1 cm to 1 m, typically in the 10 to 20 cm range. In order to save money and because copper was really the only element of interest in this particular survey, the samples were analyzed with a portable XRF. This instrument does not provide consistently reliable results for gold, and silver results were very spotty (Appendix C). The copper results highlight the northwest trending Adam West horizon (compare figures 20 and 22). Several other high copper values in soil are proximal to high copper values in grab samples (not shown on Figure 22), corroborating the usefulness of this survey. There are a number of isolated copper-in-soil anomalies that need to be field checked.

8.0 CONCLUSIONS

The Adam West Property occurs in northern Vancouver Island. The Property contains Upper Triassic Karmutsen Formation basalts and minor interbedded limestone, overlain to the east by limestone of the Upper Triassic Quatsino Formation, intruded by the Early to Middle Jurassic Island Plutonic Suite. Basalts of the Karmutsen are massive to pillowed, with variable amounts of amygdules and plagioclase phenocrysts. The Quatsino Formation limestone is grey and massive. The Island Plutonic Suite is typically massive and medium-grained, and varies in composition from granodiorite to diorite.

Twelve mineral occurrences are listed in the provincial MINFILE database; these were discovered during highly intermittent exploration of the Property from the early 1900's to approximately 2012. Altum's 2019 exploration provided more information about the location and tenor of these occurrences, and established that some of them either do not exist or occur at a completely different location.

A property-wide prospecting and geological reconnaissance program was completed in 2019 on the Adam West property. The program focused on re-locating known mineral occurrences and prospecting logging roads, some of which were not in existence during previous exploration campaigns. A soil survey was completed over the Lucky Jim area. An airborne magnetic survey was flown over the Property in June, 2019. The Property was expanded by the staking of an additional ~16 km^2 in October, 2019.



Twelve days were spent on the Property in 2020 by the junior author and a prospector, and five by the senior author. The goals of the program were to improve the geological understanding of selected mineral occurrences, improve the spatial accuracy of important data collected in 2019 and to conduct geological reconnaissance and explore for new mineralization on the newly staked ground. A soil survey was completed over the Adam West to Boyes Creek area by Aztec Geoscience Inc. A total of

105 rock samples and 200 soil samples was collected on the Property in 2020. Gold results in grab samples varied from below detection to a high of 16.55 g/t, silver from below detection to 144 g/t, copper from 56 ppm to 46.4%, lead from below detection to 36 ppm and zinc from 2 ppm to 0.96%. Soil samples were analyzed with a handheld XRF analyzer. Copper was the main element of interest; results ranged from below detection to 548 ppm.

2019 prospecting revealed that anomalous to ore grade copper is widely distributed on the Property, with values up to 38.6%. Copper mostly occurs in amygdules, along fractures and in quartz veins in basalt. Areas of historically known copper in basalt that were highlighted in the 2019 program include Adam West (up to 13.4% Cu), Boyes Creek (up to 38.6% Cu) and Eloise (up to 2.79% Cu). Of these, only Boyes Creek contains significant silver, up to 167 g/t. In addition, anomalous copper occurs over a 2.3 km long zone from just northwest of the Adam West showing to Boyes Creek. Much of this mineralization is exposed on the sides of logging roads which did not exist during most of the previous exploration history. Polymetallic mineralization, including anomalous to ore grade gold, occurs in skarn and shear zones at Lucky Jim. Three mineralized surfaces were interpreted, with values from different grab samples returning up to 69.4 g/t Au, 129 g/t Ag, 9.54% Cu and 2.19% Zn.

Highlights from the 2020 program include:

- Discovery of the Sisters Copper showing, with peak values of 46.4% Cu and 144 g/t Ag within a 20 m wide mineralized structure;
- Delineation of a 5 km long by >500 m wide zone of anomalous copper from Boyes Creek to northwest of the Sisters Copper showing. A total of 152 grab samples was taken in this zone during 2019/2020 and 102 returned values >0.25% Cu with 32 exceeding >2.5% Cu;
- Extension of Adam West copper zone from a strike length of 140 m to 750 m;
- Soil sampling corroborated the continuity of the Adam West horizon and revealed other areas for follow-up prospecting; and
- Mapping of the Lucky Jim gold showing identified a dilational zone within a north-trending fault system. Sampling in 2020 returned up to 16.55 g/t Au. Likely the mineralized horizon was repeated by folding and may have experienced later displacement during continued shearing. This provides an interpretation to aid additional targeting/testing by drilling.

The 2019 airborne magnetic survey shows that the Island Plutonic Suite is an area of moderate intensity magnetics in the northeast part of the Property, bordered to the west by a zone of low magnetics which roughly corresponds to the Quatsino Formation limestone. The Karmutsen Formation basalt has a highly variable magnetic signature. The basalt shows a strong magnetic response in the northwest and southeast parts of the Property, but only a low to moderate magnetic signature in the southwest quarter of the Property. Interestingly, the most copper-rich parts of the Property (Boyes Creek, Adam West, Eloise, etc) are associated with basalt that has a strong magnetic response.

The two exploration programs conducted by Altum have been successful in establishing the exact location and setting of historical occurrences and in discovering significant new mineralization, predominantly along new logging roads. Knowledge of the distribution of the different rock types on the Property has been improved, and detailed property-wide magnetic information was acquired. The Property is thought to have considerable merit, and further exploration is definitely justified.

9.0 RECOMMENDATIONS

The results of the 2019 and 2020 programs are very encouraging, having delineated widespread anomalous to ore grade copper and local ore grade polymetallic mineralization. Opportunities at several stages of the exploration cycle are apparent on the Property as follows: i) Lucky Jim, which is almost drill ready; ii) Boyes Creek/Adam West/Sisters Copper and to a lesser extent Eloise, which need more work to produce drill targets; and iii) the remainder of the Property. Program recommendations for each type of opportunity follow.

Lucky Jim is the only prospect to contain significant concentrations of gold. It needs one more round of exploration in order to effectively target drill holes. Previous drilling is deemed to be only minimally effective because most holes were short and some of them were drilled subparallel to the dip of the main mineralized zone. The geological/structural mapping performed in 2020 improved the understanding of the geology and surface mineralization; it now appears that the main mineralized surface is repeated by folding, and that at least two mineralized shears are present. Additional mapping north and south of the showing is recommended to put the mineralization into a broader geological context. An Induced Polarization survey is also recommended, in an attempt to track the geophysical response of the mineralized surfaces along strike and down-dip from their surface expressions. Altum has obtained permission from the Ministry of Energy, Mines and Petroleum Resources to conduct such a survey.

Boyes Creek, Sisters Copper and Adam West are all attractive copper prospects. Eloise does not look quite as good, but has not received as much attention. Further mapping is recommended for Boyes Creek in order to better define mineralized structures and zones and to map offsetting structures. The area should be further explored and mapped along strike in both directions (east and west). Due to the steep topography at Boyes Creek, an IP survey would be difficult to complete. The Sisters Copper showing and environs should be subjected to additional mapping and prospecting; the true distribution of copper mineralization in this area is not yet understood. Reconnaissance IP along logging roads in this area is recommended. A gridded IP survey is recommended at Adam West, where the target horizon is well defined. Isolated copper-in-soil anomalies at Adam West should be field checked. Additional prospecting should be undertaken at Eloise; Altum has only spent one day there so far. A reconnaissance style soil geochemical survey (200 m line spacing?) is recommended for the 5 km long zone from Boyes Creek to the northwest corner of the Property.

The remainder of the Property should be prospected and mapped at a reconnaissance scale; this includes all logging roads, as many streams as practicable, and selected traverses through forests and clear cuts. Based on results to date, priority should be given to areas underlain by basalt with a high magnetic signature.

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11.0 CERTIFICATE OF QUALIFICATIONS

I, Tom Setterfield, PhD, P.Geo. do hereby certify that:

1. I am a Principal of Geo Exploration Scouts
   5-570 Crescent Road West
   Qualicum Beach, British Columbia, V9K 1H9

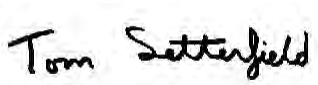
2. I graduated with a BSc degree in Geology and Chemistry from Carleton University in 1980. In addition, I have obtained an MSc in Geology from the University of Western Ontario in 1984, and a PhD in Earth Sciences from the University of Cambridge in 1991.

3. I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia (membership #209990).

4. I have worked as a geologist for a total of 40 years since my graduation from university.

5. I supervised and participated in the fieldwork on the Adam West Property described in this report.

Dated this 13th Day of October, 2020.



Tom Setterfield

I, Katarina Bjorkman, PhD, do hereby certify that:

1. I am a Consulting geologist with: Bjorkman Prospecting
225 Whiskeyjack Road, PO Box 1814
Atikokan, ON, P0T1C0

2. I graduated with an HBSc degree in Geology from Lakehead University in 2011. In addition, I have obtained a PhD in Geology from The University of Western Australia in 2017.

3. I have worked as a geologist for a total of five years since my graduation from university and as a prospector for seven years prior to enrolling in geology.

4. I participated in the fieldwork on the Adam West property described in this report.

Dated this 13th Day of October, 2020.

Katarina Bjorkman

12.0 STATEMENT OF COSTS

Exploration Work type	Comment	Days			Totals
Personnel (Name)* / Position	**Field Days (list actual days)**	**Days**	**Rate**	**Subtotal***	
Katarina Bjorkman/senior geologist	May 9-11, 13-18,23,24,26,27,28	13.5	$700.00	$9,450.00	
Jessica Bjorkman/prospector	May 10,11, 13-18,23,24,26,27,28	12.5	$550.00	$6,875.00	
Parker Schachtel/soil sampler	May 13-15	3	$500.00	$1,500.00	
Mitch Garrison/soil sampler	May 13-15	3	$500.00	$1,500.00	
Tom Setterfield/Supervisor	May 11,13-15,16	5	$750.00	$3,750.00	
				$23,075.00	**$23,075.00**
Office Studies	**List Personnel (note - Office only, do not include field days**				
Database compilation	Tom Setterfield	1.4	$750.00	$1,031.25	
Data Interpretation	Tom Setterfield	2.3	$750.00	$1,687.50	
Data Interpretation	Katarina Bjorkman	2.0	$700.00	$1,400.00	
Report preparation	Katarina Bjorkman	2.0	$700.00	$1,400.00	
Report preparation	Tom Setterfield	2.5	$750.00	$1,875.00	
				$7,393.75	**$7,393.75**
Ground Exploration Surveys	**Area in Hectares/List Personnel**				
Regional		*note: expenditures here*			
Reconnaissance	2,000	*should be captured in Personnel*			
Prospect	2,000	*field expenditures above*			
Geochemical Surveying	**Number of Samples**	**No.**	**Rate**	**Subtotal**	
Soil	*200*		$13.00	$2,600.00	
Rock	*109*		$52.58	$5,731.67	
				$8,331.67	**$8,331.67**
Transportation		**No.**	**Rate**	**Subtotal**	
truck rental	from Bjorkman Prospecting	12.50	$100.00	$1,250.00	
kilometers	Bjorkman Prospecting	6000.00	$0.55	$3,300.00	
kilometers	Aztec Geoscience	970.00	$0.60	$582.00	
fuel	paid by Setterfield		$0.00	$34.90	
				$5,166.90	**$5,166.90**
Accommodation & Food	**Rates per day**				
Hotel	paid by Setterfield		$0.00	$265.74	
Cabin	paid by Setterfield			$2,696.60	
Cabin	paid by Aztec Geoscience			$370.38	
Meals	paid by Bjorkman Prospecting		$0.00	$101.39	
Meals	paid by Setterfield			$69.00	
Meals	paid by Aztec Geoscience	6.00	$50.00	$300.00	
Groceries	paid by Setterfield			$99.57	
Groceries	paid by Bjorkman Prospecting		$0.00	$931.76	
				$4,834.44	**$4,834.44**
Miscellaneous					
Field Gear (sample bags, pails etc)	paid by Setterfield		$0.00	$267.99	
Map Printing	paid by Setterfield			$57.00	
				$324.99	**$324.99**
Equipment Rentals					
2 Differential GPS	from Bjorkman Prospecting		$0.00	$400.00	
In Reach	from Bjorkman Prospecting			$50.00	
Truck Radio	from Bjorkman Prospecting			$100.00	
2 Hand held radios	from Bjorkman Prospecting			$90.00	
				$640.00	**$640.00**
TOTAL Expenditures					**$49,766.75**

APPENDIX A-GRAB SAMPLE DESCRIPTIONS

Sample	Easting	Northing	Rock Description	Description of Mineralization	Au (g/t)	Ag (g/t)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Cu%
27251	708622	5575518	White carb vn few cms wide, weak mal, minor f cpy	cpy	0.07	2.8	4500	<2	46	
27252	708389	5575013	Mfvl, black grey, weak mal, mgt, mod mag	mal	0.008	3.9	>10000	<2	154	1.93
27253	707658	5573709	Cc veining, epi, mfvl, 265/70		0.011	<0.5	224	3	86	
27254	709962	5570280	Mfvl, local bornite+cpy+mal, amygdoils, mg	bn	0.016	2.9	>10000	<2	59	1.36
27255	710536	5570772	Mfvl, cc frcts, minor py, weakly rusty	py	0.01	<0.5	146	<2	59	
27256	710542	5570774	Sil mfvl, very fine py along fractures, grey, fg		<0.005	<0.5	140	2	67	
27257	710504	5570482	Mfvl, grey, fg, 3% py	py	<0.005	<0.5	56	<2	98	
27258	710515	5570495	Mfvl grey mg locally 3% py in vein fracture		0.007	<0.5	283	<2	74	
27259	710543	5570540	Mfvl grey green, white qv, 3% py locally	py	0.129	<0.5	73	3	46	
27260	710554	5570632	Sheared mfvl, chl, qc flooded, loc 3% py	py	0.006	<0.5	146	<2	105	
27261	710549	5570672	Grey silicified mfvl near limestone ct, 3-5% py	py	0.005	<0.5	107	<2	9	
27262	710567	5570733	Mfvl near ls ct, wk rust, 5% py	py	<0.005	<0.5	141	<2	50	
27263	710526	5570828	Mfvl, carb+chl in amyg. 3% very fine py, shrd 355	py	0.006	<0.5	94	<2	91	
27264	709827	5573977	Alt zone mi minor py in creek side		0.007	1.1	6520	<2	164	
27265	709144	5575488	Mfvl, weak epi, wk mal, 1% born in amyg, discon qv	bn	0.016	1.1	8400	<2	109	
27266	709143	5575487	Mfvl w 1-2 cm kspar qtz vn wk mal, 3-5% born loc	bn	0.016	2	>10000	2	89	1.34
27267	709161	5575495	Fg dk grey with cg plag or amyg, 0.5% fine born	bn	0.01	0.5	2370	2	105	
27268	709171	5575497	Green grey mfvl w cg qtz plag, 0.5% f. brn, wk mal	bn	0.013	<0.5	6110	<2	103	
27269	709065	5575525	Fg green grey w cg chl+plag amyg 3% f cpy	cpy	0.006	3.9	>10000	3	52	2.43
27270			Blank		<0.005	<0.5	157	<2	4	
27271	709066	5575525	Fg green grey with black chl+plag amyg, 1-3% born	bn	0.01	6.4	>10000	5	50	3.68
27272	709036	5575522	Mfvl, wk shr 65/205, mod mal frct, 1-3% cpy+born		0.008	2.8	>10000	2	93	1.775
27273	709034	5575521	Less alt than prev, green grey, 1% fine cpy	cpy	0.014	5.3	>10000	<2	90	1.36
27274	709009	5575541	Sandy texture, grey w amyg, loc mod mal on frct		0.009	7.9	>10000	4	87	3.17
27275	708896	5573944	Mfvl, mod epi, few cm qv, minor cpy	cpy	0.006	<0.5	426	<2	85	
27276	708967	5573980	Qv w wk mal, in purp-grey mfvl, mod epi, frct oc		0.062	2	2420	2	73	
27277	708967	5573977	Qvs, 52/315 mod epi, purp-grey with cg plag amyg	cpy	0.059	1.5	3580	<2	78	
27278	708966	5573971	Shear zone, qtz, talc?/soft, mod epi, 7% py	py	<0.005	<0.5	125	3	69	
27279	708968	5573960	Qv w wk epi in purp-grey mfvl, 1% mg py	py	1.67	<0.5	332	23	38	
27280	708968	5573960	Wall rock to qv #79, purp-grey, mm qvs, 7-10% f py	py	0.09	0.5	172	17	68	
27281	708992	5573789	Qv 5-10cm in shear/fault, minor py, mfvl	py	0.006	<0.5	221	<2	79	
27282	708995	5573802	Mfvl, fg, dk grey, weakly rusty, minor f py	py	0.018	0.5	2020	2	166	
27283	709026	5573756	Mfvl, alt w quartz, sheared (no direction)		<0.005	<0.5	92	<2	83	
27284	708923	5574152	3-5 cm qv w kspar, minor py		<0.005	<0.5	688	<2	57	
27285	708923	5574138	Qv w epi and minor fine py		0.005	<0.5	457	<2	133	
27286	708921	5574127	Qv w epi and minor fine cpy		0.006	<0.5	343	2	51	
27287	708928	5574207	Mfvl w epi qv, minor py		0.005	<0.5	86	2	56	
27288	708919	5574285	Qv in mfvl, wk epi, strike north-south		0.141	<0.5	199	<2	29	

27289	705389	5577237	5 cm qv, mod epi, minor bornite, 83/290	bn	0.041	<0.5	652	<2	75	
27290			Blank		<0.005	<0.5	10	<2	3	
27291	705615	5577002	1 cm qv, wk epi, minor born?, 85/120		0.083	0.6	1060	<2	69	
27292	705685	5576914	Weakly sheared, 85/210, wk epi, minor cpy	cpy	<0.005	<0.5	97	<2	83	
27293	705718	5576774	3-5cm qv w mal in mfvl, 85/290		0.347	<0.5	366	2	15	
27294	705704	5576746	Brecciated qv 1% cpy	cpy	0.33	<0.5	949	<2	60	
27295	705714	5576487	Qv in bslt, tr mal, minor cpy+born 90/300		0.103	1	1930	<2	36	
27296	705878	5576170	Qtz stwk, wk mal		0.005	<0.5	421	<2	50	
27297	705908	5575920	20 cm qtz epi vn w wk to mod mal, 75/135	bn	<0.005	<0.5	822	<2	2	
27298	706811	5577615	Qv few mm w 1% born, mod mal, KatJes		0.008	0.8	8920	2	79	
27299	706800	5577570	Few cm qv w wk mal	mal	0.043	3.2	>10000	3	23	1.205
27300	706801	5577587	28/060, 3 cm qv w 5% born, mod mal, KatJes	mal	0.025	3.1	>10000	<2	58	1.62
27301	706801	5577587	Wallrock w 5% born, black w mod mal, KatJes		0.047	7.8	>10000	3	71	3.87
27302	707211	5577114	Cm born vein in mfvl, str mal, mod az frct, KatJes	bn	0.056	2.2	>10000	3	60	2.95
27303	707213	5577110	Bslt, amyg, vein w born and mal, KatJes	bn	0.005	11.2	>10000	<2	113	1.77
27304	707258	5577080	5-10 cm qtz kspar vn, 7% cpy, KatJes	cpy	0.097	3.6	2690	14	24	
27305	707258	5577079	Bslt, amyg, 7% cpy+min brn in epi amyg, KatJes	cpy	1.925	11.7	>10000	19	97	2.06
27306	707259	5577079	Qtz kspar vn 10cm, wk mal, 3% cpy, KatJes	cpy	<0.005	1.9	4950	19	34	
27307	707269	5577074	Bslt w mod epi, few cm qv, 1-3% cpy, KatJes	cpy	0.019	0.6	1270	18	52	
27308	707108	5577197	Feldspar Qv w epi, 3% born, wk mal, KatJes	bn	0.3	37.5	>10000	11	<2	11.7
27309	706663	5577721	Bslt, 1% cpy in amyg, epi, KatJes	cpy	0.015	0.9	3600	<2	150	
27310			Blank		<0.005	<0.5	96	<2	<2	
27311	707155	5577256	Epi qv w 1-3 cm py blotches locally, KatJes	py	<0.005	<0.5	232	<2	51	
27312	707161	5577243	Grey blk, 7% py in coarse clusters on frct, KatJes	py	0.081	0.5	992	12	85	
27313	707040	5577297	Bslt w epi amyg, fg dk grey 3-5% py, KatJes	py	0.013	<0.5	284	7	162	
27314	706968	5577372	2 cm qv w feldspar, tr-minor py, KatJes		0.018	0.8	1550	2	98	
27315	706276	5577269	Few mm sacc qv w cpy on ct w wallrock, KatJes	cpy	0.025	1	3150	6	127	
27316	706257	5577617	Weakly sheared, minor py and cpy, KatJes		0.024	<0.5	1010	3	46	
27317	707576	5576938	1-3 cm qtz fdspr vns, weak mal, minor born, KatJes	mal	0.751	3	8980	<2	162	
27318	707610	5576924	Mass mfvl w amyg, born on frcts, flat vns, KatJes	mal	0.044	2.7	9190	3	113	
27319	707610	5576924	10 cm qv w feldspar, 1% born, wk mal, flat, KatJes	bn	0.026	5.3	>10000	<2	7	1.175
27320	707644	5576894	Wk mal, mod epi, flow ct, KatJes as		0.012	2.4	4340	<2	33	
27321	707636	5576810	Sacc qv w feldspar, wk mal, 0.5% born, KatJes	bn	0.089	2.7	>10000	2	13	1.355
27322	707632	5576806	Qv in shear zone, str mal, wthrd, KatJes	mal	0.039	10	>10000	5	54	2.52
27323	707631	5576803	3-5cm vn w str mal, wthrd, KatJes	mal	0.051	40.2	>10000	3	18	8.68
27324	707632	5576803	Qv w semi mass born, 1 m wide zone, KatJes	bn	0.054	144	>10000	19	17	46.4
27325	707631	5576803	Vn w str mal, weathered, born, KatJes	bn	0.049	61.5	>10000	7	49	12.65
27326	707632	5576803	Mfvl w 15-20% born part of 1 m vn, KatJes	bn	0.025	76.7	>10000	8	44	20.7
27327	707630	5576794	Wk mal, vn, mfvl, KatJes		0.02	15.4	>10000	<2	73	1.545

27328	707638	5576789	Roadside mal born boulder likely from zone, KatJes		0.028	46.4	>10000	9	33	18.75
27451	710536	5570654	Blasted shear zone strongly chl-qz-py-cpy alt	Py>cpy in veinlets along c-s fabric and fine diss	0.486	22.1	>10000	9	9560	1.26
27452	710539	5570715	5mm pyrite vein in basalt.	Chunky pyrite in 4mm vein and irregular pods	0.012	0.5	836	3	475	
27453	710564	5570701	Plagioclase porphyritic andesite or dike	Finely diss pyrite	<0.005	<0.5	243	<2	118	
27454	710566	5570703	Grey green and weakly sheared w rusty fracts		0.018	0.6	329	4	111	
27455	710564	5570750	Sheared contact between grey limestone-basalt	Pyrite in veins and diss	16.55	21.1	>10000	9	1020	1.545
27456	709045	5575482	Basalt with 40% qz-ep>>mal amygdules	Malachite along fractures and diss in amyg	0.051	1.7	6090	2	92	
27457	708602	5575923	Rusty outcrop next to creek. Green basalt.	Cpy and mal filling amygdules and fine diss	0.032	1.9	9630	<2	56	
27458	708602	5575923	Rusty outcrop next to creek. Green basalt.	Cpy and mal filling amygdules and along shear	0.035	7.9	>10000	5	39	2.55
27459	708822	5572940	Blasted basalt outcrop with mm qz-mal veins	Mal along joints	0.006	<0.5	1210	2	103	
27460			Blank		<0.005	<0.5	53	<2	<2	
27461	709063	5574818	Malachite along fractures in dark grey green		0.007	<0.5	1020	<2	123	
27462	706760	5577572	Bornite malachite veins (28/040; 70/150)	Bornite in irregular veins	0.018	6.6	>10000	2	66	3.08
27463	706800	5577582	Bornite malachite vein in carb sil ep alt basalt	Bornite is concentrated in vein	0.181	24.4	>10000	5	65	6.55
27464	706804	5577556	Flat-lying vein, wk mal, 1% born, KatJes		0.079	16.3	>10000	<2	<2	5.39
27465	706806	5577561	Bornite malachite vein in carb sil ep alt basalt	Bornite is concentrated in vein	0.057	11.9	>10000	<2	7	3.56
27466	706801	5577589	Bornite malachite vein in carb sil ep alt basalt	Bornite is concentrated in vein	0.138	9.4	>10000	15	12	2.01
27467	706806	5577637	Green chloritic basalt with qz ep py amyg	Along qz ep veins and in amygdules	0.017	0.7	1820	12	65	
27468	707209	5577119	4mm bornite vein in epidote quartz altered	In 4mm veinlet at 76/350	0.026	2.3	>10000	2	112	2.46
27469	707259	5577079	Amygdaloidal basalt with coarse amyg	Filling coarse amyg	2.52	7.7	>10000	16	76	2.22
27470	707272	5577073	Green fg basalt with mg 25% qz fs amygdules		0.074	2.1	>10000	9	119	1.665
27471	707304	5577051	1-5cm qz fs vein with cpy and mal	Cpy in veinlets	0.01	1.4	2870	<2	57	
27472	707105	5577208	Fine green basalt with <15mm qz ep cpy amygdules	Filling amyg near faults/veins	0.012	1.1	9660	3	58	
27473	706793	5577662	4-6cm py qz cc kfs vein cutting basalt massive	Chunky py in vein	0.058	0.8	681	36	22	
27474	706652	5577735	4cm py qz cc kfs vein cutting basalt massive	Chunky py in vein	0.016	0.6	582	8	57	
27475	706935	5577391	Amygdaloidal basalt with 25% amyg	Coarse pyrite	0.137	1.7	2820	13	123	
27476	707631	5576801	Qv in mfvl, 15% born, str mal, KatJes		0.031	101	>10000	12	23	29.5
27477	707632	5576801	Qv in mfvl, str mal, 10% born, KatJes		0.078	71.3	>10000	7	26	19.25
19255	705786	5578097	Qv in mfvl, trends 85/007	Trace cpy, mal in vein	0.048	0.6	774	<2	<2	
19256	705828	5577955	Basalt with multiple qv trending 90/002	Trace bn	<0.005	0.5	1270	<2	22	
19257	705768	5577916	25 cm qv in basalt, trends 90/008	minor py-bn	<0.005	0.5	1520	<2	26	
19258	705841	5577688	10 cm shear zone cutting basalt, 80/265	tr mal	0.229	1.2	1950	3	74	

APPENDIX B-CERTIFICATES OF 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: ALTUM RESOURCE CORP
#5-570 CRESCENT ROAD WEST
QUALICUM BEACH BC V9K 1H9

Finalized Date: 14-JUN-2020
Account: UMRECO

CERTIFICATE VA20114805

Project: Adam West

This report is for 109 Rock samples submitted to our lab in Vancouver, BC, Canada on 29-MAY-2020.

The following have access to data associated with this certificate:

TOM SETTERFIELD

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP61	33 element four acid ICP-AES	ICP-AES
Ag-OG62	Ore Grade Ag - Four Acid	
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	
Au-AA23	Au 30g FA-AA finish	AAS
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

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

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QUALICUM BEACH BC V9K 1H9

Finalized Date: 14-JUN-2020
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Project: Adam West

CERTIFICATE OF ANALYSIS VA20114805

Sample Description	Method	WEI-21	Au-AA23	Au-GRA21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.005	0.05	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01
027251		0.78	0.070		2.0	8.51	<5	40	0.5	6	10.80	0.7	26	35	4500	7.58
027252		1.66	0.008		3.0	7.44	<5	240	<0.5	3	6.40	0.6	41	214	>10000	8.54
027253		1.00	0.011		<0.5	6.95	<5	40	<0.5	<2	3.93	0.5	44	143	224	8.31
027254		1.06	0.016		2.0	4.33	<5	30	<0.5	5	5.35	1.8	26	60	>10000	6.85
027255		0.68	0.010		<0.5	7.96	<5	40	<0.5	<2	8.40	<0.5	35	198	146	5.85
027256		0.60	<0.005		<0.5	8.23	<5	50	<0.5	5	7.42	<0.5	34	221	140	5.91
027257		1.16	<0.005		<0.5	8.08	<5	890	0.6	3	5.50	<0.5	12	6	56	5.03
027258		1.26	0.007		<0.5	8.30	<5	110	0.5	3	8.45	<0.5	31	169	283	7.34
027259		0.98	0.129		<0.5	4.26	<5	50	<0.5	<2	4.87	<0.5	18	114	73	4.07
027260		0.84	0.006		<0.5	5.72	<5	160	<0.5	<2	11.35	<0.5	20	100	146	5.37
027261		1.12	0.005		<0.5	5.83	56	90	<0.5	5	13.15	<0.5	47	68	107	2.99
027262		1.06	<0.005		<0.5	9.76	41	40	<0.5	5	12.65	<0.5	54	192	141	10.00
027263		1.12	0.006		<0.5	7.13	<5	80	<0.5	7	5.32	<0.5	41	213	94	6.92
027264		0.52	0.007		1.1	7.57	<5	10	0.5	5	4.07	0.5	44	108	6520	8.11
027265		0.82	0.016		1.1	7.17	<5	40	0.6	6	6.32	0.6	36	155	8400	8.28
027266		1.20	0.016		2.0	7.70	<5	60	0.6	8	5.41	0.5	28	144	>10000	7.37
027267		0.98	0.010		0.5	7.77	<5	60	0.8	5	6.50	<0.5	35	205	2370	8.47
027268		1.00	0.013		<0.5	8.22	<5	90	0.8	2	5.43	0.7	34	210	6110	8.20
027269		0.82	0.006		3.9	6.27	<5	170	<0.5	9	6.27	0.7	33	189	>10000	7.76
027270		0.68	<0.005		<0.5	0.18	<5	20	<0.5	<2	33.0	<0.5	1	5	157	0.21
027271		1.32	0.010		6.4	6.25	<5	110	<0.5	2	6.06	<0.5	30	170	>10000	7.71
027272		1.24	0.008		2.8	7.84	<5	260	0.5	<2	4.13	<0.5	33	165	>10000	7.56
027273		0.94	0.014		5.3	8.18	<5	280	<0.5	4	4.52	0.5	36	163	>10000	7.67
027274		1.60	0.009		7.0	7.15	<5	190	0.6	4	3.97	0.6	36	188	>10000	8.29
027275		1.04	0.006		<0.5	7.63	<5	210	<0.5	3	7.54	0.5	36	33	426	8.57
027276		1.34	0.062		2.0	5.07	<5	30	<0.5	<2	4.06	0.6	28	47	2420	6.13
027277		1.06	0.059		1.5	6.14	<5	30	0.5	<2	5.62	1.0	48	67	3580	8.97
027278		0.98	<0.005		<0.5	6.37	5	10	<0.5	3	8.63	<0.5	40	64	125	8.51
027279		0.94	1.670		<0.5	2.91	523	50	<0.5	<2	7.83	0.7	19	26	332	8.00
027280		1.34	0.090		0.5	4.82	143	50	<0.5	<2	8.63	0.6	28	45	172	7.76
027281		1.18	0.006		<0.5	6.37	<5	<10	<0.5	3	7.99	<0.5	32	29	221	7.98
027282		0.98	0.018		0.5	5.86	<5	<10	0.8	7	8.40	0.7	50	3	2020	13.10
027283		1.02	<0.005		<0.5	5.87	<5	<10	<0.5	<2	6.48	<0.5	25	37	92	6.13
027284		0.94	<0.005		<0.5	5.54	<5	30	<0.5	<2	6.55	<0.5	25	43	688	5.68
027285		1.14	0.005		<0.5	6.38	<5	10	0.7	4	11.65	0.5	43	67	457	9.97
027286		0.70	0.006		<0.5	6.79	<5	10	0.7	<2	11.05	<0.5	31	60	343	8.48
027287		0.92	0.005		<0.5	6.55	<5	10	0.5	2	7.73	<0.5	26	51	86	7.08
027288		0.96	0.141		<0.5	4.76	<5	10	<0.5	<2	5.96	<0.5	12	69	199	3.85
027289		0.84	0.041		<0.5	6.81	<5	<10	<0.5	3	10.60	<0.5	55	171	652	8.24
027290		0.86	<0.005		<0.5	0.49	<5	30	<0.5	<2	30.9	<0.5	<1	2	10	0.14

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

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Finalized Date: 14-JUN-2020
Account: UMRECO

Project: Adam West

CERTIFICATE OF ANALYSIS VA20114805

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Ca	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
	Units	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	10	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20
027251		50	0.04	<10	1.07	1070	1	0.42	46	290	<2	0.07	<5	16	476	<20
027252		20	0.12	<10	4.08	1370	1	1.74	113	620	<2	0.46	<5	33	287	<20
027253		20	0.19	<10	3.44	1420	1	0.83	98	480	3	<0.01	6	38	376	<20
027254		20	0.06	<10	2.19	1265	2	0.23	47	520	<2	0.21	5	18	51	<20
027255		20	0.06	<10	4.39	1020	1	1.26	150	410	<2	0.06	<5	28	494	<20
027256		20	0.09	<10	4.12	1045	1	0.94	149	420	2	0.02	6	20	253	<20
027257		20	1.41	<10	1.12	1415	2	0.02	1	1070	<2	0.34	<5	10	229	<20
027258		20	0.12	<10	2.42	1420	1	1.43	71	700	<2	0.16	<5	32	485	<20
027259		10	1.11	<10	1.05	761	<1	0.15	46	420	3	0.43	<5	10	58	<20
027260		20	0.76	<10	1.94	2230	1	0.91	40	450	<2	0.22	<5	22	100	<20
027261		20	1.21	<10	0.16	822	6	0.63	55	360	<2	1.47	<5	17	270	<20
027262		20	0.17	<10	0.51	780	1	0.52	230	490	<2	1.30	<5	49	463	<20
027263		20	0.26	<10	4.78	991	1	3.08	131	480	<2	1.70	<5	27	334	<20
027264		20	0.03	10	3.08	1045	1	3.55	70	920	<2	0.48	5	40	175	<20
027265		20	0.05	10	3.66	1590	1	2.91	67	770	<2	0.19	<5	34	150	<20
027266		20	0.12	<10	2.88	1180	1	2.68	56	640	2	0.28	6	29	177	<20
027267		20	0.04	10	3.10	1510	<1	3.09	85	740	2	0.04	<5	37	277	<20
027268		30	0.06	<10	3.32	1130	1	3.34	83	720	<2	0.11	5	33	174	<20
027269		20	0.22	10	2.43	1420	1	2.35	70	800	3	1.67	<5	35	101	<20
027270		<10	0.01	<10	1.77	93	<1	0.07	1	80	<2	0.01	<5	1	79	<20
027271		20	0.11	10	2.59	1200	1	2.32	64	740	5	1.21	<5	33	71	<20
027272		20	0.15	10	4.96	1555	1	2.62	70	650	2	0.41	<5	28	338	<20
027273		20	0.10	10	4.23	1260	1	3.11	69	740	<2	0.58	<5	34	288	<20
027274		20	0.48	10	4.26	1400	1	1.36	73	720	4	0.77	<5	35	112	<20
027275		30	0.02	10	2.79	1270	<1	0.85	44	650	<2	0.02	<5	32	232	<20
027276		20	0.14	<10	2.03	1135	2	0.66	41	460	2	0.03	<5	26	101	<20
027277		20	0.59	10	2.95	963	1	0.32	65	700	<2	0.21	<5	38	177	<20
027278		20	0.03	<10	3.39	1055	1	0.91	62	620	3	0.21	<5	36	402	<20
027279		10	0.74	<10	0.81	548	1	0.02	25	300	23	6.68	<5	16	122	<20
027280		10	0.88	<10	1.96	799	1	0.03	39	480	17	4.02	<5	27	147	<20
027281		20	0.01	<10	1.89	1155	1	0.02	43	510	<2	0.02	<5	25	312	<20
027282		30	0.01	10	2.74	2160	1	0.80	27	1120	2	0.10	8	38	146	<20
027283		20	<0.01	<10	1.54	985	1	0.01	29	420	<2	<0.01	<5	24	234	<20
027284		20	0.18	<10	1.32	1025	2	0.93	28	410	<2	0.11	<5	20	319	<20
027285		30	0.01	10	2.49	1900	1	0.05	68	830	<2	0.04	<5	41	551	<20
027286		30	0.03	<10	2.17	1455	1	0.14	58	660	2	0.01	<5	33	578	<20
027287		20	0.02	<10	1.44	1115	1	0.93	42	550	2	<0.01	<5	27	190	<20
027288		20	0.06	<10	0.60	584	2	0.11	30	310	<2	<0.01	<5	15	413	<20
027289		20	<0.01	<10	4.37	1370	1	0.49	101	510	<2	0.01	<5	37	351	<20
027290		<10	0.18	<10	1.36	78	<1	0.23	<1	70	<2	0.02	<5	<1	80	<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: ALTUM RESOURCE CORP
#5-570 CRESCENT ROAD WEST
QUALICUM BEACH BC V9K 1H9

Project: Adam West

CERTIFICATE OF ANALYSIS VA20114805

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Ag-OG62	Cu-OG62
	Analyte	Te	Tl	U	V	W	Zn	Ag	Cu
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.01	10	10	1	10	2	1	0.001
027251		0.46	<10	<10	227	<10	46		
027252		0.99	<10	<10	315	<10	154		1.930
027253		0.93	<10	<10	340	<10	86		
027254		0.56	<10	<10	260	<10	59		1.360
027255		0.66	<10	<10	227	<10	59		
027256		0.71	<10	<10	234	<10	67		
027257		0.37	<10	<10	112	<10	98		
027258		0.96	<10	<10	282	<10	74		
027259		0.57	<10	<10	226	<10	46		
027260		0.60	<10	<10	202	<10	105		
027261		0.46	<10	<10	149	<10	9		
027262		0.59	<10	<10	287	<10	50		
027263		0.73	<10	<10	248	<10	91		
027264		1.33	<10	<10	281	<10	164		
027265		1.09	<10	<10	321	<10	109		
027266		0.95	<10	<10	298	<10	89		1.340
027267		1.18	<10	<10	336	<10	105		
027268		1.14	<10	<10	328	<10	103		
027269		1.09	<10	<10	308	<10	52		2.43
027270		0.02	<10	<10	6	<10	4		
027271		1.07	<10	<10	312	<10	50		3.68
027272		1.02	<10	<10	301	<10	93		1.775
027273		1.14	<10	<10	325	<10	90		1.360
027274		1.13	<10	<10	323	<10	87		3.17
027275		1.00	<10	<10	324	<10	85		
027276		0.72	<10	<10	268	<10	73		
027277		1.00	<10	<10	312	<10	78		
027278		0.99	<10	10	295	<10	69		
027279		0.46	<10	10	149	<10	38		
027280		0.76	<10	<10	233	<10	68		
027281		0.81	<10	<10	285	<10	79		
027282		1.80	<10	<10	514	<10	166		
027283		0.74	<10	<10	259	<10	83		
027284		0.67	<10	<10	213	<10	57		
027285		1.34	<10	<10	443	<10	133		
027286		1.02	<10	<10	318	<10	51		
027287		0.96	<10	<10	311	<10	56		
027288		0.50	<10	<10	200	<10	29		
027289		0.84	<10	<10	293	<10	75		
027290		0.01	<10	10	2	<10	3		

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

To: ALTUM RESOURCE CORP
#5-570 CRESCENT ROAD WEST
QUALICUM BEACH BC V9K 1H9

Finalized Date: 14-JUN-2020
Account: UMRECO

Project: Adam West

CERTIFICATE OF ANALYSIS VA20114805

Sample Description	Method	WEI-21	Au-AA23	Au-GRA21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.005	0.03	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01
027291		0.78	0.083		0.6	7.45	<5	10	<0.5	2	10.25	<0.5	37	148	1060	7.16
027292		1.04	<0.005		<0.5	6.69	<5	10	<0.5	5	5.55	<0.5	48	148	97	8.52
027293		0.76	0.347		<0.5	1.29	<5	20	<0.5	2	0.53	<0.5	6	43	366	1.51
027294		1.14	0.330		<0.5	5.34	<5	30	<0.5	3	11.20	0.7	28	111	949	5.84
027295		0.94	0.103		1.0	2.93	<5	20	<0.5	<2	0.77	<0.5	14	83	1930	3.45
027296		0.74	0.005		<0.5	4.98	<5	<10	<0.5	<2	6.67	<0.5	26	123	421	5.62
027297		1.20	<0.005		<0.5	3.40	<5	<10	<0.5	<2	7.14	<0.5	1	72	822	2.21
027298		1.36	0.008		0.8	6.76	<5	50	0.6	3	5.92	1.1	37	93	8920	8.49
027299		1.48	0.043		3.2	6.72	5	<10	<0.5	3	10.60	0.7	20	50	>10000	7.34
027300		1.44	0.025		3.1	7.10	<5	40	0.5	<2	7.32	0.8	38	54	>10000	9.00
027301		0.96	0.047		7.8	6.36	<5	20	<0.5	6	4.69	0.7	43	69	>10000	10.00
027302		1.02	0.056		2.2	6.73	20	10	0.5	9	8.65	0.8	28	72	>10000	7.97
027303		0.88	0.005		11.2	7.86	6	160	0.6	4	5.77	<0.5	26	60	>10000	6.72
027304		1.28	0.097		3.6	7.85	<5	1320	<0.5	<2	8.83	4.6	12	35	2690	4.17
027305		0.80	1.925		11.7	5.57	<5	40	0.6	7	6.01	29.7	42	83	>10000	9.86
027306		1.94	<0.005		1.9	7.55	<5	640	<0.5	2	9.39	7.6	16	71	4950	5.45
027307		1.74	0.019		0.6	6.37	<5	10	0.8	3	12.95	2.6	26	66	1270	8.58
027308		1.14	0.300		37.6	5.53	8	10	<0.5	13	8.88	2.7	15	28	>10000	9.05
027309		1.04	0.015		0.9	6.64	<5	50	<0.5	6	5.89	1.7	44	97	3600	9.35
027310		0.74	<0.005		<0.5	0.10	<5	40	<0.5	<2	31.3	<0.5	<1	2	96	0.08
027311		1.00	<0.005		<0.5	7.35	5	10	0.5	4	12.55	0.5	30	69	232	8.69
027312		1.82	0.081		0.5	6.84	301	330	0.7	4	5.29	1.3	86	76	992	19.55
027313		0.88	0.013		<0.5	7.34	30	20	<0.5	4	5.29	0.5	55	102	284	10.80
027314		2.26	0.018		0.8	7.46	<5	320	<0.5	2	6.28	0.5	31	91	1550	6.67
027315		0.96	0.025		1.0	6.75	<5	30	0.7	7	7.07	0.9	38	60	3150	9.28
027316		0.96	0.024		<0.5	7.28	<5	50	0.6	3	6.40	<0.5	31	94	1010	8.98
027317		1.14	0.751		3.0	7.77	<5	140	<0.5	4	6.83	0.9	36	149	8980	6.64
027318		1.56	0.044		2.7	6.37	<5	20	0.5	6	12.20	0.9	37	113	9190	8.11
027319		1.60	0.026		5.3	7.91	<5	170	<0.5	4	10.05	1.1	9	18	>10000	3.90
027320		1.06	0.012		2.4	8.88	<5	<10	0.7	<2	11.00	0.5	20	78	4040	6.75
027321		1.20	0.039		2.7	7.31	<5	60	<0.5	3	8.97	3.5	13	46	>10000	6.30
027322		1.14	0.039		10.0	5.03	<5	240	<0.5	4	2.56	3.3	28	169	>10000	6.24
027323		0.80	0.051		40.2	1.41	<5	10	<0.5	14	0.94	11.7	6	24	>10000	2.22
027324		1.40	0.054		>100	0.34	<5	10	<0.5	5	0.53	14.1	4	17	>10000	5.17
027325		1.38	0.049		61.5	2.49	<5	20	<0.5	28	3.00	16.1	20	105	>10000	3.43
027326		0.96	0.025		76.7	1.41	<5	10	<0.5	24	1.86	13.7	14	56	>10000	3.11
027327		1.14	0.020		15.4	7.25	<5	40	<0.5	6	5.41	1.2	32	202	>10000	7.03
027328		1.00	0.028		46.4	1.91	<5	10	<0.5	17	1.54	51.0	13	77	>10000	3.26
027451		0.94	0.486		22.1	6.86	21	280	<0.5	5	0.54	105.0	73	123	>10000	14.75
027452		0.86	0.012		0.5	6.86	37	40	<0.5	6	1.64	2.0	24	223	836	15.10

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

To: ALTUM RESOURCE CORP
#5-570 CRESCENT ROAD WEST
QUALICUM BEACH BC V9K 1H9

Project: Adam West

CERTIFICATE OF ANALYSIS VA20114805

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Ca	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
	Units	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	10	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20
027291		30	0.05	<10	3.44	1300	1	1.54	77	420	<2	0.01	<5	35	113	<20
027292		10	0.08	<10	4.49	1065	1	3.06	89	550	<2	0.02	<5	35	81	<20
027293		<10	0.21	<10	0.61	243	1	0.06	13	70	2	0.01	<5	5	10	<20
027294		10	0.20	<10	2.95	1375	<1	1.40	59	320	<2	0.07	<5	28	186	<20
027295		10	0.22	<10	1.61	690	1	0.52	37	190	<2	0.03	<5	13	20	<20
027296		10	0.01	<10	2.61	1070	1	0.83	51	350	<2	<0.01	<5	27	303	<20
027297		10	0.01	<10	0.10	265	3	0.01	9	120	<2	<0.01	<5	8	426	<20
027298		20	0.07	10	2.69	1165	2	2.61	68	540	2	0.20	<5	38	184	<20
027299		30	0.01	<10	1.44	878	1	0.06	37	410	3	0.24	<5	21	378	<20
027300		30	0.12	10	2.43	1100	2	0.95	53	590	<2	0.14	<5	34	162	<20
027301		20	0.04	10	3.49	1130	2	1.48	82	680	3	0.61	<5	38	237	<20
027302		20	0.01	<10	2.48	1390	1	0.06	54	510	3	0.61	5	32	489	<20
027303		20	0.11	<10	2.80	1105	1	3.12	44	490	<2	0.35	<5	25	316	<20
027304		30	1.28	<10	0.59	737	1	2.14	23	200	14	0.10	<5	11	425	<20
027305		20	0.02	<10	3.26	1280	3	1.38	69	570	19	1.39	<5	34	140	<20
027306		30	0.94	<10	0.93	784	2	1.01	40	550	19	0.24	<5	21	575	<20
027307		30	0.01	<10	2.29	1655	1	0.08	53	630	15	0.06	<5	34	219	<20
027308		50	0.01	<10	0.54	492	10	0.02	23	150	11	4.02	<5	9	285	<20
027309		20	0.06	10	3.82	1855	1	3.02	71	730	<2	0.37	<5	43	108	<20
027310		<10	0.10	<10	1.01	83	<1	0.07	<1	60	<2	<0.01	<5	<1	80	<20
027311		30	0.01	<10	2.57	1340	1	0.16	60	590	<2	0.11	<5	33	253	<20
027312		40	0.10	<10	2.64	868	99	0.35	81	330	12	>10.0	<5	31	185	<20
027313		20	0.03	10	4.02	1330	119	2.13	85	560	7	1.46	<5	40	169	<20
027314		20	0.23	<10	2.89	1590	<1	3.53	52	450	2	0.13	<5	32	198	<20
027315		30	0.13	10	2.18	1235	2	2.34	58	970	6	0.28	5	35	96	<20
027316		30	0.09	10	2.01	1110	1	1.75	55	680	3	0.02	<5	33	394	<20
027317		20	0.18	<10	3.20	1910	1	2.58	73	620	<2	0.18	<5	35	279	<20
027318		40	0.05	<10	1.82	1230	1	0.37	74	570	3	0.24	<5	30	177	<20
027319		20	0.55	<10	0.39	468	1	2.46	18	300	<2	0.25	<5	10	179	<20
027320		30	0.01	<10	0.63	1290	1	0.01	38	340	<2	0.64	<5	18	342	<20
027321		30	0.12	<10	0.93	800	1	0.93	29	440	2	0.11	<5	20	497	<20
027322		10	0.27	<10	2.85	1275	3	0.97	73	390	5	0.17	<5	22	206	<20
027323		10	0.01	<10	0.70	294	3	0.21	15	60	3	0.22	<5	3	57	<20
027324		<10	0.01	<10	0.31	186	19	0.02	2	30	19	>10.0	<5	1	22	<20
027325		10	0.03	<10	2.45	798	9	0.64	57	300	7	1.68	<5	15	124	<20
027326		10	0.01	<10	1.50	526	14	0.20	42	130	8	4.43	<5	7	89	<20
027327		20	0.10	<10	2.95	1070	1	1.58	99	980	<2	0.03	9	30	288	<20
027328		10	0.02	<10	1.56	338	4	0.39	36	160	9	2.91	<5	8	72	<20
027451		20	0.54	<10	3.12	2710	2	0.03	79	430	9	7.00	<5	20	4	<20
027452		20	0.10	<10	5.45	3980	1	0.09	147	310	3	1.64	<5	22	32	<20

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QUALICUM BEACH BC V9K 1H9

Finalized Date: 14-JUN2020
Account: UMRECO

Project: Adam West

CERTIFICATE OF ANALYSIS VA20114805

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Ag-OG62	Co-OG62
	Analyte	Ti	Tl	U	V	W	Zn	Ag	Co
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.01	10	10	1	10	2	1	0.001
027291		0.70	<10	<10	279	<10	69		
027292		0.87	<10	<10	265	<10	83		
027293		0.16	<10	<10	78	<10	15		
027294		0.52	<10	<10	218	<10	60		
027295		0.33	<10	<10	150	<10	36		
027296		0.59	<10	<10	221	<10	50		
027297		0.20	<10	<10	114	<10	2		
027298		1.00	<10	<10	340	<10	79		
027299		0.64	<10	<10	336	<10	23		1.205
027300		0.96	<10	<10	345	<10	58		1.520
027301		1.09	<10	<10	348	<10	71		3.67
027302		0.84	<10	<10	298	<10	60		2.95
027303		0.70	<10	<10	258	<10	113		1.770
027304		0.31	<10	<10	182	<10	24		
027305		0.91	<10	<10	318	<10	97		2.06
027306		0.54	<10	<10	279	<10	34		
027307		0.94	<10	<10	412	<10	52		
027308		0.24	<10	<10	200	<10	<2		11.70
027309		1.11	<10	<10	356	<10	150		
027310		0.01	<10	<10	2	<10	<2		
027311		0.85	<10	<10	367	<10	51		
027312		0.76	10	<10	314	<10	85		
027313		1.01	<10	<10	348	<10	162		
027314		0.76	<10	<10	272	<10	98		
027315		1.35	<10	<10	386	<10	127		
027316		0.98	<10	<10	358	<10	46		
027317		0.91	<10	<10	305	<10	162		
027318		0.83	<10	<10	341	<10	113		
027319		0.40	<10	<10	146	<10	7		1.175
027320		0.50	<10	<10	269	<10	33		
027321		0.61	<10	<10	258	<10	13		1.355
027322		0.62	<10	<10	206	<10	54		2.52
027323		0.08	<10	<10	51	<10	18		8.68
027324		0.05	<10	<10	18	<10	17	144	45.4
027325		0.44	<10	<10	135	<10	49		12.65
027326		0.21	<10	<10	64	<10	44		20.7
027327		0.88	<10	<10	277	<10	73		1.545
027328		0.24	<10	<10	83	<10	33		18.75
027451		0.68	<10	<10	109	<10	9560		1.260
027452		0.60	<10	<10	215	<10	475		

***** 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: ALTUM RESOURCE CORP
#5-570 CRESCENT ROAD WEST
QUALICUM BEACH BC V9K 1H9

Finalized Date: 14-JUN-2020
Account: UMRECO

Project: Adam West

CERTIFICATE OF ANALYSIS VA20114805

Sample Description	Method	WEI-21	Au-AA23	Au-GRA21	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	0.02	0.005	0.05	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01
027453		1.08	<0.005		<0.5	8.90	<5	370	0.8	2	3.72	0.6	14	3	243	5.03
027454		0.88	0.018		0.6	9.40	9	1500	0.5	<2	0.59	<0.5	7	1	329	8.87
027455		1.26	>10.0	16.55	21.1	6.28	107	310	<0.5	7	0.11	12.3	119	208	>10000	17.65
027456		1.00	0.061		1.7	6.97	<5	30	0.6	4	7.36	0.6	39	183	6090	9.12
027457		0.68	0.032		1.9	6.28	<5	50	0.5	8	2.49	0.7	39	210	9630	8.69
027458		0.46	0.035		7.9	5.90	<5	30	<0.5	4	2.02	<0.5	38	148	>10000	10.00
027459		0.78	0.006		<0.5	7.18	<5	50	0.5	<2	7.95	<0.5	42	138	1210	8.91
027460		0.74	<0.005		<0.5	0.13	<5	20	<0.5	<2	33.1	<0.5	<1	2	53	0.10
027461		1.10	0.007		<0.5	7.01	<5	50	0.5	4	7.74	<0.5	44	109	1020	9.72
027462		0.76	0.018		6.6	7.53	<5	40	0.6	4	8.65	0.7	36	88	>10000	8.48
027463		1.02	0.161		24.4	6.35	<5	20	<0.5	16	3.36	0.9	48	74	>10000	9.47
027464		1.04	0.079		16.0	6.08	9	220	<0.5	5	10.10	0.7	11	10	>10000	6.57
027465		1.16	0.067		11.9	6.08	<5	220	<0.5	8	10.60	0.5	15	21	>10000	6.07
027466		0.84	0.138		9.4	8.55	<5	1030	<0.5	6	3.29	0.6	13	24	>10000	4.51
027467		0.54	0.017		0.7	7.34	69	30	0.6	4	8.12	1.1	54	80	1820	12.05
027468		1.26	0.026		2.3	7.19	5	710	<0.5	8	5.45	1.0	34	60	>10000	7.51
027469		0.80	2.52		7.7	6.31	<5	40	0.5	5	4.95	18.9	43	98	>10000	9.25
027470		1.32	0.074		2.1	6.62	<5	20	0.5	<2	6.02	4.0	38	83	>10000	7.85
027471		1.18	0.010		1.4	6.70	<5	90	0.6	5	8.67	1.4	30	72	2870	7.57
027472		1.80	0.012		1.1	6.42	<5	10	0.6	5	7.53	14.6	48	84	9660	9.92
027473		1.04	0.058		0.8	6.20	204	210	<0.5	3	6.32	0.5	49	25	681	19.25
027474		0.42	0.018		0.8	6.30	60	20	<0.5	<2	6.99	0.7	52	55	692	11.10
027475		0.92	0.137		1.7	6.66	318	20	<0.5	5	5.79	3.0	69	76	2820	13.80
027476		1.10	0.031		>100	0.26	<5	<10	<0.5	21	0.31	61.2	3	7	>10000	3.47
027477		1.46	0.078		71.3	0.29	<5	<10	<0.5	<2	0.46	117.0	7	18	>10000	2.22
019255		1.50	0.048		0.6	1.29	<5	30	<0.5	3	5.85	<0.5	1	23	774	0.71
019256		1.04	<0.005		0.5	1.56	<5	40	<0.5	<2	0.40	0.7	8	37	1270	2.54
019257		1.30	<0.005		0.5	2.04	<5	<10	<0.5	<2	1.66	1.3	15	43	1520	4.14
019258		1.18	0.229		1.2	6.31	<5	140	0.6	<2	3.73	0.6	40	37	1950	10.65

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

To: ALTUM RESOURCE CORP
#5-570 CRESCENT ROAD WEST
QUALICUM BEACH BC V9K 1H9

Finalized Date: 14-JUN-2020
Account: UMRECO

Project: Adam West

CERTIFICATE OF ANALYSIS VA20114805

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Ca	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
	Units	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	10	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20
027453		20	1.48	10	1.20	810	<1	1.27	2	1110	<2	0.60	<5	11	272	<20
027454		20	3.04	10	1.29	887	1	0.81	2	1270	4	0.99	<5	13	116	<20
027455		20	0.64	<10	2.77	3060	1	0.02	109	350	9	7.57	<5	20	4	<20
027456		20	0.04	10	3.34	1525	<1	2.59	72	730	2	0.03	<5	37	183	<20
027457		20	0.07	10	5.08	1385	1	2.28	83	810	<2	0.51	<5	39	70	<20
027458		20	0.06	<10	4.85	815	4	1.40	80	520	5	1.75	<5	27	206	<20
027459		20	0.13	<10	4.05	1495	1	1.52	97	650	2	0.02	<5	38	213	<20
027460		<10	0.03	<10	1.38	80	1	0.05	<1	70	<2	<0.01	<5	<1	77	<20
027461		20	0.09	10	3.65	1755	1	1.42	72	790	<2	0.03	<5	38	233	<20
027462		30	0.04	<10	2.52	1040	1	1.54	61	630	2	0.06	<5	36	266	<20
027463		20	0.04	10	3.44	1056	6	1.16	71	640	5	0.51	<5	37	068	<20
027464		50	0.45	<10	0.39	590	1	0.46	13	180	<2	0.51	<5	6	321	<20
027465		50	0.48	<10	0.66	627	1	0.20	24	200	<2	0.37	<5	9	324	<20
027466		30	2.41	<10	0.91	518	1	2.42	19	320	15	0.05	<5	11	419	<20
027467		30	0.05	<10	2.29	841	31	1.08	71	540	12	2.70	<5	32	208	<20
027468		20	0.16	<10	2.67	1330	4	3.06	61	590	2	0.64	<5	35	289	<20
027469		20	0.06	<10	4.03	1120	5	2.76	71	650	16	0.91	<5	40	150	<20
027470		10	0.03	<10	2.92	1400	2	2.96	62	590	9	0.46	<5	35	162	<20
027471		20	0.12	<10	2.50	1560	1	1.96	55	550	<2	0.18	5	32	139	<20
027472		20	0.02	10	3.25	1075	4	1.92	73	730	3	0.71	<5	39	109	<20
027473		30	0.32	<10	0.43	412	42	0.80	27	310	36	>10.0	<5	11	267	<20
027474		20	0.03	<10	1.77	760	15	0.60	56	320	8	3.73	<5	21	350	<20
027475		20	0.02	<10	1.99	873	26	1.60	63	510	13	6.33	<5	32	212	<20
027476		<10	0.01	<10	0.08	204	22	0.02	<1	20	12	6.40	<5	<1	16	<20
027477		<10	0.01	<10	0.28	504	14	0.02	8	30	7	3.04	<5	1	14	<20
019255		<10	0.55	<10	0.09	345	2	0.02	7	30	<2	0.04	<5	2	29	<20
019256		<10	0.29	<10	0.65	250	2	0.41	13	150	<2	0.30	<5	7	27	<20
019257		10	0.01	<10	0.91	423	2	0.01	21	260	<2	0.13	<5	13	270	<20
019258		30	0.73	10	2.37	1560	1	1.32	43	960	3	0.17	<5	31	108	<20

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 604 984 0221 Fax: +1 604 984 0218
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QUALICUM BEACH BC V9K 1H9

Project: Adam West

CERTIFICATE OF ANALYSIS VA20114805

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	Ag-OG62	Cu-OG62
	Analyte	Ti	Tl	U	V	W	Zn	Ag	Cu
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.01	10	10	1	10	2	1	0.001
027453		0.37	<10	<10	107	<10	110		
027454		0.36	<10	<10	118	<10	111		
027455		0.40	<10	<10	156	<10	1020		1.545
027456		1.10	<10	<10	354	<10	92		
027457		1.20	<10	<10	343	<10	56		
027458		0.83	<10	<10	265	<10	39		2.55
027459		1.05	<10	<10	353	<10	103		
027460		0.01	<10	10	2	<10	<2		
027461		1.13	<10	<10	367	<10	123		
027462		0.93	<10	10	366	<10	66		3.09
027463		1.05	<10	<10	356	<10	65		6.55
027464		0.22	<10	<10	251	<10	<2		5.39
027465		0.26	<10	<10	251	<10	7		3.56
027466		0.44	<10	<10	200	<10	12		2.01
027467		0.81	<10	<10	341	<10	65		
027468		0.91	<10	<10	315	<10	112		2.46
027469		1.00	<10	<10	345	<10	76		2.22
027470		0.91	<10	<10	287	<10	119		1.665
027471		0.83	<10	<10	321	<10	57		
027472		1.00	<10	<10	350	<10	58		
027473		0.38	10	<10	167	<10	22		
027474		0.60	<10	<10	237	<10	57		
027475		0.81	<10	<10	278	<10	123		
027476		0.02	<10	10	10	<10	23	101	29.5
027477		0.04	<10	<10	18	<10	26		19.25
019255		0.08	<10	10	49	<10	<2		
019256		0.23	<10	<10	77	<10	22		
019257		0.41	<10	<10	143	<10	26		
019258		1.32	<10	<10	378	<10	74		

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 604 984 0221 Fax: +1 604 984 0218
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To: ALTUM RESOURCE CORP
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QUALICUM BEACH BC V9K 1H9

Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 14-JUN-2020
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Project: Adam West

CERTIFICATE OF ANALYSIS VA20114805

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

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

Ag-OG62	Au-AA23	Au-GRA21	CRU-31
CRU-QC	Cu-OG62	DISP-01	LOG-21
ME-ICP61	ME-OG62	PUL-31	PUL-QC
SPL-21	WEI-21		

APPENDIX C-SOIL SURVEY INFORMATION

XRF ANALYSIS - ADAM WEST SOIL GRID - MAY 2020

Sample	Easting	Northing	Comments	Mg ppm	Al ppm	Si ppm	P ppm	S ppm	K ppm	Ca ppm	Ti ppm	V ppm	Cr ppm	Mn ppm	Fe ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm
AW1	708152	5575558	light yellow-brown	0	64108	94763	0	567	0	11523	16294	117	80	338	97934	0	15	105	32
AW2	708190	5575593	light brown	0	81021	124887	745	1021	323	17183	20624	134	109	624	108227	0	39	97	71
AW3	708237	5575600	light red-brown	19856	52347	63430	649	830	134	10138	16702	117	37	387	108668	0	0	94	27
AW4	708286	5575624	light orange-brown	0	121669	107483	481	1061	251	8553	18540	154	125	380	150066	0	0	99	39
AW5	708328	5575648	light red-brown	0	75894	58122	711	910	388	17041	11600	88	82	481	92730	0	0	111	26
AW6	708372	5575665	med brown	0	50758	101248	964	873	535	8022	19389	176	0	510	122027	0	0	41	24
AW7	708423	5575687	light red-brown	0	103125	76050	1410	1365	97	8378	18263	138	56	411	82013	0	18	101	40
AW8	708471	5575710	light yellow-brown	0	181158	104726	321	3044	0	5423	8862	79	117	516	82670	0	35	209	46
AW9	708510	5575726	light red-brown	21065	87149	124497	367	726	362	9065	22047	193	64	442	131737	0	0	102	44
AW10	708555	5575751	dark brown, organic rich	0	15687	30143	691	1587	1439	2771	4728	0	0	51	7920	0	0	13	13
AW11	708603	5575769	medium brown	0	50128	98275	858	970	275	8214	36880	359	0	316	153517	0	0	88	33
AW12	708642	5575790	yellow-brown	16451	93547	91617	417	1020	0	5983	12033	116	83	1012	84387	0	32	548	58
AW13	708689	5575813	red-brown	19407	54089	109257	526	923	428	7262	18033	179	128	283	123948	0	0	62	25
AW14	708740	5575843	orange-brown	23378	67778	131708	874	441	489	15811	20955	210	178	354	153288	0	0	0	33
AW15	708781	5575861	dark brown, organic rich	0	23950	54644	807	1508	1073	5890	5385	24	0	105	27430	0	0	8	7
AW16	708828	5575885	dark brown, organic rich	0	40409	105896	809	1371	1231	12807	13669	85	57	272	38197	0	12	12	19
AW17	708881	5575893	light brown, organic-rich	0	58623	144206	716	1026	925	16981	30868	178	114	394	39270	0	14	13	29
AW18	708921	5575927	light orange-brown	18089	61877	151248	545	473	498	17176	28864	266	145	570	124408	0	22	47	32
AW19	708962	5575943	medium brown	0	22864	218398	0	564	123	13792	38958	182	332	1212	41087	0	46	19	53
AW20	708229	5575379	red-brown	0	79843	54159	653	1142	0	4197	11198	97	53	172	84085	0	0	69	23
AW21	708276	5575398	light brown	0	87903	88621	930	903	104	8612	15452	106	94	323	85480	0	17	113	33
AW22	708321	5575427	light yellow-brown	0	123231	94674	577	985	0	11558	12098	87	129	559	97102	0	41	173	62
AW23	708369	5575442	light orange-brown	0	90857	92566	0	609	402	16741	14213	116	141	421	97307	0	36	98	51
AW24	708416	5575463	medium brown	19739	103484	98675	968	1320	329	14581	23248	148	115	608	65112	0	39	130	63
AW25	708463	5575486	light red-brown	0	81480	118541	1116	650	0	8174	32280	285	92	353	193980	0	0	55	28
AW26	708508	5575505	dark brown, some organics	0	26077	56975	234	656	252	8078	16044	131	0	153	64498	0	0	15	13
AW27	708552	5575530	light orange-brown	0	66570	133691	472	440	204	12202	22291	208	88	391	133854	0	0	63	27
AW28	708597	5575545	light yellow-brown	16539	74037	79457	497	825	0	9992	18127	122	81	396	104664	0	22	142	44
AW29	708640	5575569	light red-brown	15325	113209	163495	757	777	402	11814	22535	135	119	557	134266	0	22	112	53
AW30	708685	5575593	light orange-brown	0	93851	123263	611	808	0	7272	28960	255	88	415	175344	0	0	91	31
AW31	708732	5575611	light orange-brown	0	72222	89060	886	693	0	5556	19198	148	127	297	136189	0	0	90	25
AW32	708787	5575641	light orange-brown	18464	80946	53279	615	638	0	4737	15876	112	152	256	151974	0	0	239	18
AW33	708817	5575662	light red-brown	0	53031	75697	226	572	0	3843	9319	66	88	236	64747	0	21	98	42
AW34	708872	5575682	dark brown, organic rich	18212	48575	145112	756	785	830	13327	28191	167	105	364	62383	0	22	30	43
AW35	708913	5575698	light yellow-brown	30852	75421	121316	1257	607	0	13689	19822	174	244	354	152599	0	29	48	56
AW36	708963	5575730	brown, organic rich	0	8932	16095	349	592	790	978	412	0	0	0	4431	0	0	0	3
AW37	708999	5575744	brown, organic rich	0	14078	65330	0	542	1065	4771	14352	0	0	122	9840	0	0	0	18
AW38	709047	5575761	brown, organic rich	0	36619	104725	345	571	905	18537	13559	77	147	557	52227	0	65	20	43
AW39	709093	5575784	brown, organic rich	0	27763	168198	0	295	0	25608	26936	212	256	648	100264	0	84	41	48
AW40	708308	5575204	brown, organic rich	0	18115	32119	509	1233	850	3545	3936	0	0	30	4727	0	0	245	5
AW41	708371	5575221	brown, organic rich	23896	28767	89389	471	1020	1435	8863	24004	135	0	276	35278	0	0	0	27
AW42	708406	5575230	brown, organic rich	0	34930	71134	0	483	1135	7131	14650	106	0	241	41429	0	0	36	26
AW43	708457	5575267	light brown	35892	125960	184293	1277	676	0	34253	11318	130	118	2711	84350	0	79	328	87
AW44	708502	5575285	orange-brown	0	53079	54867	952	476	386	6771	14303	117	65	356	116080	0	0	59	27
AW45	708542	5575299	brown, organic rich	0	15354	146881	191	465	100	4878	27463	195	0	237	58573	0	0	9	16

Sample	Easting	Northing	Comments	Mg ppm	Al ppm	Si ppm	P ppm	S ppm	K ppm	Ca ppm	Ti ppm	V ppm	Cr ppm	Mn ppm	Fe ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm
AW46	708597	5575307	brown, organic rich	0	18675	71835	499	1421	790	7593	13234	0	0	265	10894	0	0	0	4
AW47	708636	5575343	light brown-grey	19706	70090	127614	911	1289	924	14053	16590	100	53	446	50914	0	14	64	45
AW48	708681	5575360	brown, organic rich	0	9083	10218	759	1266	486	784	0	0	0	0	4871	0	0	0	0
AW49	708720	5575382	brown, organic rich	0	25009	80953	438	670	795	6639	22987	112	0	324	17962	0	0	0	15
AW50	708778	5575403	brown, organic rich	0	6885	13834	196	652	609	2464	2167	0	0	0	4423	0	0	0	0
AW51	708807	5575431	brown, organic rich	0	14209	68053	358	726	403	2658	16858	86	0	96	22520	0	0	5	5
AW52	708859	5575448	light brown	0	43668	128444	547	833	624	5417	29161	281	0	239	129888	0	0	41	17
AW53	708909	5575464	light brown	12968	105444	142426	421	1056	0	12564	20163	152	116	374	109491	0	0	151	31
AW54	708961	5575494	brown, organic rich	0	16831	29501	598	1098	788	6889	8328	0	0	58	10664	0	0	96	7
AW55	708998	5575508	light brown	0	106658	51301	804	1288	0	5728	6834	32	92	2204	66431	0	25	323	43
AW56	709044	5575536	light orange-brown	17119	85241	107548	646	678	0	10487	24380	198	125	659	167553	0	0	305	39
AW57	709082	5575560	light brown	0	88198	131539	0	877	194	9905	15961	136	108	981	117690	0	55	453	76
AW58	709135	5575577	dark brown, organic rich	0	12723	29753	0	1377	791	8323	6849	0	0	85	10103	0	0	8	9
AW59	709174	5575603	medium brown, organic rich	20208	41214	129416	510	722	0	7495	25135	229	0	312	95669	0	0	49	22
AW60	708389	5575019	medium red-brown	20583	92129	105669	1326	653	1215	15055	15563	88	76	721	83119	0	29	159	80
AW61	708447	5575033	dark brown, organic rich	0	11570	24791	539	2292	767	6010	2399	0	0	0	10112	0	0	9	8
AW62	708494	5575062	medium brown	0	62523	185123	518	1064	794	15764	35241	218	0	452	59631	0	20	37	39
AW63	708537	5575072	red-brown	0	61212	123596	751	664	0	7154	29981	294	61	339	168515	0	0	64	27
AW64	708584	5575096	light brown	0	145230	98130	593	2393	0	12148	11580	87	150	522	88667	0	36	203	56
AW65	708644	5575118	dark brown, organic rich	0	21876	118686	833	940	867	8943	26518	117	0	536	24108	0	0	10	21
AW66	708666	5575144	medium brown, organic rich	17831	47427	133721	1547	1314	583	20518	21806	144	55	950	60697	0	28	142	48
AW67	708718	5575156	medium brown	0	27871	87410	785	1045	1041	10724	23836	196	0	396	101216	0	0	49	39
AW68	708763	5575184	yellow-brown	0	63451	65055	0	831	356	10659	14521	133	64	376	120375	0	0	110	43
AW69	708802	5575200	medium brown	0	50852	99474	724	592	649	7573	19485	145	0	464	83510	0	0	55	40
AW70	708856	5575223	brown-grey, organic rich	0	26960	79879	0	1144	2454	18830	23964	99	0	418	30949	0	25	82	42
AW71	708896	5575235	dark brown, organic rich	0	15204	23235	592	2450	2454	14453	442	0	0	0	3207	0	0	0	21
AW72	708953	5575256	medium brown, organic rich	0	21571	86788	0	505	489	11364	19676	149	0	324	53095	0	0	21	14
AW73	708986	5575295	red-brown	0	32916	44417	369	658	323	6956	18370	117	58	245	147293	0	0	106	18
AW74	709033	5575304	red-brown	0	45191	102797	551	729	0	4076	16520	131	61	308	147598	0	0	206	27
AW75	709091	5575313	orange-brown	0	40814	68875	0	717	564	8313	15186	115	127	519	111338	0	0	469	42
AW76	709126	5575351	orange-brown	0	45039	59630	0	700	393	7770	13308	56	132	384	113789	0	0	235	58
AW77	709172	5575379	dark brown, organic rich	0	20008	78076	911	1394	961	9621	24494	106	0	109	22231	0	0	41	19
AW78	709208	5575392	brown-grey, organic rich	0	11838	43048	0	1109	807	4763	10992	0	0	135	13650	0	0	0	7
AW79	709268	5575406	medium brown	0	53689	36152	1182	2153	1115	3178	1819	0	0	89	36163	0	0	88	7
AW80	708490	5574838	medium brown	0	39673	45038	677	623	541	1585	8458	107	0	327	123923	0	0	67	11
AW81	708530	5574862	red-brown, organic rich	0	26794	61946	0	542	658	8672	14692	120	0	318	77303	0	0	31	27
AW82	708582	5574877	light orange-brown	0	40801	86427	0	569	364	9030	23958	192	61	240	128597	0	0	65	25
AW83	708618	5574903	dark brown, organic rich	0	19224	25084	0	934	808	1082	2217	0	0	0	9603	0	0	0	0
AW84	708675	5574916	medium brown	0	26462	100522	0	790	786	13387	53006	418	0	357	121458	0	0	67	23
AW85	708723	5574951	medium brown, organic rich	0	10775	18653	0	835	1621	3611	320	0	0	104	2376	0	0	0	14
AW86	708759	5574969	dark brown, organic rich	0	18284	51422	0	454	1026	6704	23008	121	0	867	19678	0	0	0	45
AW87	708808	5574974	medium brown, organic rich	0	27337	113146	0	603	667	11284	30261	188	0	451	40520	0	0	16	40
AW88	708847	5575015	light brown-grey	0	59446	105564	861	831	1225	28686	10443	111	96	820	69198	0	50	193	75
AW89	708899	5575024	grey-brown	36774	68021	170232	593	333	898	53009	10172	141	115	1873	80494	0	92	426	95
AW90	708941	5575047	light brown-tan	0	112644	143561	0	966	568	26787	14668	100	180	534	62926	0	39	111	53
AW91	708973	5575078	medium brown	17227	88150	226382	342	824	2244	32465	32596	221	138	637	89962	0	26	45	54

Sample	Easting	Northing	Comments	Mg ppm	Al ppm	Si ppm	P ppm	S ppm	K ppm	Ca ppm	Ti ppm	V ppm	Cr ppm	Mn ppm	Fe ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm
AW92	709033	5575088	medium brown	0	43187	85498	555	625	561	19927	14767	91	79	724	76974	0	50	54	78
AW93	709074	5575105	grey-brown	0	30779	81646	0	479	1439	21869	19872	117	0	1388	72800	0	55	80	94
AW94	709128	5575126	brown-grey, organic rich	0	29129	133652	0	304	714	18258	41158	273	0	1551	36490	0	0	17	45
AW95	709167	5575147	orange brown	0	49703	65070	0	507	360	10426	20265	170	66	948	136362	0	0	84	46
AW96	709223	5575170	medium brown, organic rich	0	24504	79101	468	971	708	14535	18505	174	0	1499	39652	0	0	150	42
AW97	709262	5575194	red-brown	0	21712	40679	0	782	488	4837	15459	118	0	223	114134	0	0	65	23
AW98	709308	5575218	orange-brown	0	69219	63217	0	1239	558	6828	18722	158	112	302	136463	0	0	98	33
AW99	709342	5575233	red-brown	0	25812	33897	505	1124	751	8889	6074	0	0	272	58412	0	20	72	33
AW100	708619	5574671	light brown	0	71463	57164	523	1064	261	6548	13563	95	63	255	121377	0	0	51	25
AW101	708661	5574702	light brown	0	51435	103637	617	730	657	8581	22469	207	59	267	139007	0	0	39	18
AW102	708707	5574713	dark brown	0	40019	69269	428	625	359	8704	18810	150	0	256	80469	0	0	32	37
AW103	708752	5574740	tan	0	59483	43080	563	885	224	8054	9041	64	93	240	75363	0	19	71	36
AW104	708796	5574761	medium brown	0	42746	69400	301	612	379	12207	18157	150	47	392	117721	0	0	40	43
AW105	708844	5574779	light brown	25664	118916	144694	716	1111	1011	14249	21860	146	54	876	113792	0	50	103	95
AW106	708889	5574803	yellow-brown	0	79886	110211	1224	880	165	8252	26924	236	60	304	194001	0	0	55	28
AW107	708936	5574820	light brown-mocha	15165	55034	172790	1110	450	136	8902	51989	509	0	532	148217	0	0	63	43
AW108	708976	5574844	red-brown	0	67991	81693	672	892	106	5131	16454	139	55	248	123638	0	0	44	23
AW109	709029	5574862	orange-brown	18195	121732	109696	910	1362	0	12155	15883	119	110	658	120049	0	29	133	58
AW110	709068	5574887	orange-brown	0	92028	75860	396	2128	0	6123	14652	103	101	629	102979	0	0	142	34
AW111	709118	5574911	medium brown	22202	51845	124923	1165	426	0	14060	38042	317	64	560	171031	0	0	51	34
AW112	709162	5574933	orange-brown	15442	105068	96964	1129	802	0	8034	18193	154	86	991	142443	0	0	113	46
AW113	709208	5574951	red-brown	14094	67368	65318	582	743	0	6250	15003	107	40	259	99516	0	0	57	26
AW114	709254	5574972	medium brown	15816	109723	121021	1051	1274	0	17973	14987	107	126	793	86197	0	33	112	55
AW115	709303	5574999	medium brown	0	38902	86426	483	722	0	11765	30493	275	0	351	179340	0	0	31	25
AW116	709345	5575016	dark brown, organic rich	0	29842	39844	522	1194	503	5918	8867	29	0	199	57727	0	0	30	16
AW117	709389	5575040	light brown	0	67394	121406	736	906	0	9557	28221	246	0	486	178155	0	0	69	33
AW118	709437	5575056	light yellow-brown	0	126203	127902	430	856	0	10965	22628	202	87	587	139048	0	23	150	57
AW119	708749	5574516	medium brown	0	58944	77571	1000	1218	886	5510	22666	232	51	213	104969	0	0	37	30
AW120	708797	5574532	dark brown, organic rich	0	21471	161779	1047	947	750	8051	36485	148	0	416	15500	0	0	17	32
AW121	708841	5574560	orange-brown	0	167724	74425	1096	1538	0	13276	8668	42	114	486	57284	0	42	118	50
AW122	708889	5574576	medium brown	0	73669	88830	1857	1531	0	6372	15762	102	37	445	106010	0	0	51	29
AW123	708930	5574590	orange-brown	30029	90524	122090	735	478	208	11265	25614	163	118	804	157280	0	23	324	82
AW124	708965	5574621	light brown	23294	73859	100881	870	847	475	12728	16801	149	0	476	135235	0	0	68	44
AW125	709019	5574642	medium brown	16459	53251	65524	847	1084	370	6624	15765	134	65	348	113446	0	0	57	33
AW126	709065	5574662	red-brown	0	145055	57943	962	1753	0	7822	7407	65	78	448	65346	0	24	129	46
AW127	709103	5574689	orange-brown	16154	93465	144249	1444	674	265	9524	32085	278	112	409	178712	0	0	95	46
AW128	709157	5574704	red-brown	0	36458	60097	0	559	741	8170	21623	200	99	438	160555	0	0	140	48
AW129	709196	5574720	orange-brown	0	45122	68659	0	977	364	6783	27874	248	106	314	203593	0	0	189	19
AW130	709248	5574746	light brown	0	43798	130159	0	426	0	6696	35074	325	0	379	150084	0	0	139	41
AW131	709282	5574778	red-brown	0	57285	96239	0	416	1054	11624	21008	179	52	507	132673	0	0	112	53
AW132	709337	5574793	red-brown	0	38778	56652	604	1038	732	5422	17058	110	66	448	145582	0	0	105	33
AW133	709393	5574817	dark brown, organic rich	26319	26956	113217	376	856	630	14532	38011	327	0	606	82570	0	22	39	39
AW134	709442	5574830	orange-brown	32768	77424	84897	392	1018	453	8984	22567	185	129	360	167276	0	0	113	42
AW135	709496	5574874	dark brown, organic rich	0	26949	129102	379	948	601	10071	28584	218	0	259	48792	0	0	18	18
AW136	709527	5574893	dark brown, organic rich	0	35309	157533	1099	1764	1323	30357	40763	280	0	1121	31012	0	0	9	36
AW137	709563	5574894	mocha brown	0	47732	126152	768	766	1688	20418	23786	100	56	1297	65122	0	0	65	73

Sample	Easting	Northing	Comments	Mg ppm	Al ppm	Si ppm	P ppm	S ppm	K ppm	Ca ppm	Ti ppm	V ppm	Cr ppm	Mn ppm	Fe ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm
AW138	709617	5574905	orange-brown	0	161433	109944	457	1788	0	11923	12081	82	168	429	99725	0	34	187	50
AW139	709652	5574903	red-brown	0	68474	60720	448	1110	120	7885	17745	138	99	271	148341	0	0	70	29
AW140	708844	5574331	orange-brown	0	75194	56706	445	1636	430	10018	12875	99	94	276	112171	0	0	82	27
AW141	708875	5574360	tan	0	109623	55806	765	931	0	13187	7145	42	88	429	50939	0	29	126	39
AW142	708922	5574375	red-brown	0	49343	65861	467	881	948	7511	17302	169	98	327	141005	0	0	28	32
AW143	708969	5574395	medium brown	0	31857	49586	0	743	369	6599	14622	115	0	249	99257	0	0	37	20
AW144	709012	5574415	orange-brown	18700	118326	127175	845	559	432	11527	19510	172	91	490	121187	0	0	166	57
AW145	709057	5574435	red-brown	0	57043	40393	479	999	284	5167	8671	58	36	231	69558	0	0	55	25
AW146	709107	5574446	red-brown	0	84003	86185	1267	935	0	7010	14206	122	84	242	110376	0	0	44	24
AW147	709140	5574471	red-orange brown	14184	178675	92781	1667	1653	0	18656	11222	85	101	637	76756	0	43	130	49
AW148	709204	5574510	medium brown	0	42782	66501	660	865	735	5533	11638	71	0	499	82690	0	0	29	22
AW149	709237	5574515	medium brown	0	48503	39792	828	943	629	6410	4659	0	0	1284	46073	0	14	52	40
AW150	709283	5574545	light brown	0	111651	61352	2633	2465	0	4540	4084	23	45	224	28909	0	0	114	30
AW151	709334	5574563	medium brown	0	32303	97050	492	649	223	7279	26700	197	0	224	97515	0	0	30	20
AW152	709380	5574601	red-brown	0	88949	82445	454	868	163	9144	18950	158	143	288	145393	0	0	71	33
AW153	709429	5574614	orange-brown	0	178497	83302	583	1711	0	9119	8793	46	125	417	71162	0	33	133	39
AW154	709468	5574640	medium brown	0	67394	105716	588	1025	171	7163	20248	190	45	305	133952	0	0	79	25
AW155	709520	5574657	orange-brown	0	111355	98020	305	926	300	12666	16690	139	83	448	129173	0	0	136	43
AW156	709567	5574669	light orange-brown	14454	115550	164657	0	837	161	14182	25003	201	75	525	139172	0	0	106	43
AW157	709602	5574687	orange-brown	0	165686	109629	548	1407	0	8975	11329	97	132	344	98655	0	23	115	46
AW158	709660	5574715	medium brown	0	69327	46790	1051	1423	0	8871	9243	68	67	319	96355	0	0	62	35
AW159	709696	5574741	medium brown	0	46324	104247	473	751	0	10487	27834	263	78	382	150205	0	0	29	18
AW160	709731	5574757	dark brown, organic rich	0	12950	19486	869	1216	867	3445	1878	0	0	91	3256	0	0	10	12
AW161	708930	5574147	light brown	0	47832	58685	651	747	468	6946	13180	97	0	626	79503	0	0	92	40
AW162	708951	5574162	medium brown	0	34097	24513	833	882	464	3971	2674	0	0	1849	54761	0	0	29	16
AW163	708995	5574182	red-brown	22206	83997	74861	635	1182	521	8904	12669	107	96	278	163047	0	0	34	14
AW164	709043	5574211	orange-brown	0	84053	59661	637	793	0	8445	11864	91	61	1568	107032	0	0	117	51
AW165	709095	5574230	orange-brown	0	62995	50847	734	793	319	5843	12924	111	72	299	107677	0	0	100	31
AW166	709132	5574254	orange-brown	0	41201	58226	458	694	681	10468	14758	118	99	408	121173	0	0	61	36
AW167	709189	5574269	orange-brown	0	97647	41790	684	1325	191	4697	6073	49	57	354	84531	0	0	101	39
AW168	709234	5574294	orange-brown	0	116867	48931	737	1242	0	3728	7493	57	61	287	79867	0	0	133	32
AW169	709289	5574309	orange-brown	20054	93112	51402	616	915	0	7339	13068	105	93	398	104850	0	25	130	48
AW170	709321	5574337	light brown	19869	93320	75987	814	1061	720	12591	10738	70	91	924	66326	0	45	156	82
AW171	709365	5574372	orange-brown	0	51122	33859	0	729	201	8020	8092	49	85	236	89386	0	0	133	30
AW172	709406	5574379	light brown	0	67636	62726	712	984	195	7205	17386	140	78	251	146516	0	0	62	23
AW173	709462	5574400	yellow-brown	0	92172	55248	0	1726	0	8141	15188	114	84	354	106686	0	0	339	35
AW174	709532	5574421	dark brown, some organics	0	41884	69463	333	719	105	8613	13252	106	47	178	88329	0	0	33	11
AW175	709556	5574441	medium brown	22759	54557	84085	883	812	0	8460	24073	192	103	207	146073	0	0	53	12
AW176	709601	5574461	medium brown	0	44838	62950	743	692	699	15082	17042	151	0	629	72264	0	47	135	70
AW177	709644	5574480	orange-brown	0	37851	49124	0	483	0	7494	32659	308	81	234	233787	0	0	50	28
AW178	709680	5574504	orange-brown	0	56002	49414	1045	1094	447	13220	20879	155	101	346	190631	0	0	72	30
AW179	709735	5574522	orange-brown	0	82801	98468	0	1571	184	24429	14314	130	166	580	107122	0	41	118	64
AW180	708910	5573918	medium brown	0	26327	59084	0	803	919	8180	17728	155	0	581	110044	0	0	39	37
AW181	708955	5573947	light yellow-brown	25735	116179	96757	2094	1319	408	17982	13099	69	95	710	82888	0	51	159	87
AW182	709003	5573968	medium brown	0	53214	85686	738	888	1191	15065	17062	105	89	422	94464	0	35	77	76
AW183	709039	5573987	orange-brown	0	94653	66547	543	1020	0	10575	11386	77	108	440	115724	0	22	120	43

Sample	Easting	Northing	Comments	Mg ppm	Al ppm	Si ppm	P ppm	S ppm	K ppm	Ca ppm	Ti ppm	V ppm	Cr ppm	Mn ppm	Fe ppm	Co ppm	Ni ppm	Cu ppm	Zn ppm
AW184	709083	5574016	medium red-brown	20352	66757	77168	1246	1217	343	8951	16257	152	87	436	135827	0	0	85	40
AW185	709130	5574043	orange-brown	14777	94804	82842	828	1103	0	7657	17942	160	70	349	125130	0	0	119	47
AW186	709188	5574058	medium brown	15155	42590	122254	419	580	731	7705	28797	279	50	316	106054	0	0	27	26
AW187	709223	5574080	medium brown	0	17831	66864	0	374	83	6537	30174	276	0	365	120525	0	0	32	23
AW188	709264	5574094	light red-brown	18633	56171	71291	465	727	309	11963	18988	160	92	386	144169	0	0	95	40
AW189	709311	5574118	tan	0	64802	135384	0	589	1726	19055	34327	211	58	602	73095	0	28	57	52
AW190	709363	5574139	orange-brown	0	46726	30904	0	729	277	6343	9233	0	102	256	101430	0	0	118	37
AW191	709423	5574164	orange-brown	0	62293	95015	859	825	948	14110	24369	208	72	388	167186	0	0	75	35
AW192	709463	5574189	medium red-brown	0	42484	45816	0	1055	296	7074	10575	90	50	425	82831	0	0	81	40
AW193	709496	5574210	red-brown	17283	65226	65534	826	725	268	8395	14813	92	69	1191	124500	0	0	45	34
AW194	709549	5574218	red-brown	0	70042	65882	573	731	140	11406	14471	126	62	299	121209	0	0	88	43
AW195	709588	5574247	orange-brown	0	116313	98295	0	1491	416	17770	15035	127	178	532	127626	0	52	206	75
AW196	709634	5574269	dark red-brown	0	39743	55554	811	640	444	6180	10748	65	0	216	80963	0	0	30	23
AW197	709691	5574285	medium red-brown	0	51573	35800	694	962	386	6413	7663	0	70	285	92785	0	0	69	39
AW198	709729	5574308	orange -brown	0	55532	71606	991	816	336	13135	23849	200	114	503	199587	0	0	72	43
AW199	709787	5574329	grey-tan	0	34626	159170	628	0	0	17916	63349	235	118	485	50585	0	0	20	41
AW200	709811	5574352	medium red-brown	0	69286	119691	1709	929	966	14947	17371	119	124	782	124569	0	0	44	41

XRF ANALYSIS - ADAM WEST SOIL GRID - MAY 2020

Sample	As ppm	Se ppm	Rb ppm	Sr ppm	Y ppm	Zr ppm	Nb ppm	Mo ppm	Ag ppm	Cd ppm	Sn ppm	Sb ppm	W ppm	Au ppm	Hg ppm	Pb ppm	Bi ppm	Th ppm	U ppm	LE ppm
AW1	3	0	3	114	10	78	4	0	0	0	0	0	0	0	0	0	19	0	0	713894
AW2	0	0	3	149	12	91	9	0	0	0	0	0	0	0	0	0	20	0	0	644611
AW3	4	0	0	70	3	67	5	0	0	0	0	0	0	0	0	0	27	0	0	726409
AW4	0	0	3	103	9	111	9	0	0	0	0	0	0	0	0	0	31	0	0	590834
AW5	0	0	6	77	9	74	7	0	0	0	0	0	0	0	0	0	0	0	0	741643
AW6	5	0	2	61	5	100	6	0	0	0	0	0	0	0	0	0	35	0	0	695220
AW7	0	0	6	99	10	83	6	0	0	0	0	0	0	0	0	0	21	0	0	708311
AW8	0	3	7	103	12	100	0	0	0	0	28	0	0	0	0	0	20	0	0	612520
AW9	4	0	3	139	8	120	10	0	0	0	0	0	0	0	0	0	38	0	0	601819
AW10	0	0	4	61	9	22	9	0	32	17	0	0	0	0	0	13	0	41	8	934740
AW11	6	0	0	110	7	143	23	0	0	0	0	0	0	0	0	0	22	0	0	649774
AW12	6	0	3	122	14	87	5	0	0	0	0	0	0	0	0	0	21	0	0	692438
AW13	4	0	2	72	4	78	6	0	0	0	0	0	0	0	0	0	35	0	0	665248
AW14	5	0	0	161	4	89	6	0	0	0	0	0	0	0	0	0	39	0	0	584198
AW15	0	0	4	49	8	42	4	0	24	18	0	0	0	0	0	0	0	0	0	879018
AW16	0	0	6	82	11	90	7	0	0	0	0	0	14	0	0	6	0	0	0	784939
AW17	0	0	5	178	12	184	15	0	0	0	0	0	15	0	0	7	0	0	0	706228
AW18	0	0	5	159	8	149	15	0	0	0	0	0	22	0	0	0	37	0	0	595345
AW19	0	0	0	41	13	292	23	0	0	0	0	0	0	0	0	0	29	0	0	661970
AW20	0	0	3	40	7	64	0	0	0	0	0	0	0	0	0	0	19	0	0	764177
AW21	0	0	5	79	10	84	5	0	0	0	0	0	0	0	0	0	23	0	0	711104
AW22	3	0	3	102	9	91	0	0	0	0	0	0	0	0	0	0	22	0	0	658496
AW23	0	0	2	106	9	94	11	0	0	0	0	0	0	0	0	0	18	0	0	686200
AW24	0	0	5	124	13	92	11	0	0	0	0	0	0	0	0	0	16	0	0	671181
AW25	7	0	0	85	0	141	17	0	0	0	0	0	0	0	0	0	47	0	0	562669
AW26	0	0	0	48	5	63	8	0	0	0	0	0	0	0	0	0	13	0	0	826736
AW27	4	0	0	163	9	109	9	0	0	0	0	0	0	0	0	0	37	0	0	629169
AW28	3	0	0	100	5	73	6	0	0	0	0	0	0	0	0	0	27	0	0	694842
AW29	8	0	5	134	11	123	12	0	0	0	0	0	0	0	0	0	28	0	0	536103
AW30	7	0	0	102	8	158	17	0	0	0	35	0	0	0	0	0	50	0	0	568636
AW31	5	0	0	81	0	96	7	0	0	0	0	0	0	0	0	0	39	0	0	675281
AW32	4	0	0	73	0	76	0	0	0	0	0	0	0	0	0	0	42	0	0	672500
AW33	9	0	3	52	4	63	4	0	0	0	0	0	0	0	0	0	17	0	0	791862
AW34	5	0	6	147	12	132	20	0	0	0	0	0	0	0	0	27	17	0	0	680732
AW35	0	0	0	154	6	82	6	0	0	0	0	0	0	0	0	0	38	0	0	583246
AW36	0	0	3	30	10	12	9	0	30	20	0	0	0	0	0	7	0	38	8	967250
AW37	3	0	4	31	12	74	16	8	34	0	0	0	0	0	0	6	0	34	7	889651
AW38	5	0	3	159	13	73	11	0	0	0	0	0	0	0	0	18	0	20	0	771300
AW39	0	0	0	132	17	135	24	9	0	0	0	0	0	0	0	13	0	0	0	649316
AW40	0	0	3	25	12	20	13	9	37	20	0	0	0	0	0	26	0	34	8	934481
AW41	3	0	7	62	11	86	19	0	0	0	0	0	0	0	0	5	0	0	0	786246
AW42	0	0	5	66	7	71	10	0	0	0	0	0	0	0	0	7	0	0	0	828530
AW43	0	0	3	201	23	96	0	0	0	0	0	0	0	0	0	0	21	0	0	518184
AW44	0	0	0	85	5	63	0	0	0	0	0	0	0	0	0	0	27	0	0	752281
AW45	0	0	0	33	8	143	15	0	0	0	0	0	0	0	0	8	19	0	0	745413

Sample	As ppm	Se ppm	Rb ppm	Sr ppm	Y ppm	Zr ppm	Nb ppm	Mo ppm	Ag ppm	Cd ppm	Sn ppm	Sb ppm	W ppm	Au ppm	Hg ppm	Pb ppm	Bi ppm	Th ppm	U ppm	LE ppm
AW46	0	0	3	75	12	53	13	0	28	0	0	0	0	0	0	4	0	29	8	874565
AW47	2	0	4	109	8	74	8	0	0	0	0	0	0	0	0	0	20	0	0	696963
AW48	0	0	2	10	8	9	5	0	32	21	0	0	0	0	0	0	0	29	5	972413
AW49	5	0	4	83	11	113	16	0	21	0	0	0	12	0	0	14	0	0	0	843817
AW50	0	0	2	13	7	15	6	0	35	20	0	0	0	0	0	0	0	25	4	968642
AW51	0	0	2	17	6	52	9	0	15	0	0	0	0	0	0	0	0	0	0	873922
AW52	5	0	0	63	7	137	18	0	0	0	0	0	0	0	0	0	26	0	0	660584
AW53	0	0	2	158	7	104	9	0	0	0	0	0	0	0	0	0	27	0	0	594339
AW54	0	0	4	69	10	33	10	0	32	20	0	0	0	0	0	6	0	29	6	924922
AW55	0	2	4	106	8	75	4	0	0	0	0	0	0	0	0	0	0	0	0	758036
AW56	0	0	0	156	7	104	11	0	0	0	0	0	0	0	0	0	34	0	0	584710
AW57	7	0	6	156	11	106	10	0	0	0	0	0	0	0	0	0	17	0	0	633513
AW58	0	0	4	48	13	47	16	17	41	0	0	0	0	0	0	5	0	52	10	929726
AW59	0	0	2	93	8	113	15	0	0	0	0	0	0	0	0	0	0	0	0	678788
AW60	0	0	11	122	14	94	11	0	0	0	0	0	0	0	0	0	0	0	0	663282
AW61	0	0	4	32	11	23	15	14	44	0	0	0	0	0	0	5	0	50	10	941296
AW62	4	0	6	118	12	128	23	0	0	0	0	0	0	0	0	14	0	0	0	638270
AW63	0	0	0	76	5	140	22	0	0	0	0	0	0	0	0	0	32	0	0	607067
AW64	0	0	4	90	12	100	7	0	0	0	0	0	0	0	0	0	0	0	0	639993
AW65	0	0	3	63	11	114	13	0	16	0	0	0	0	0	0	12	0	0	0	796311
AW66	0	0	4	98	12	96	15	0	0	0	0	0	0	0	0	13	0	0	0	692952
AW67	0	0	6	80	13	143	34	9	0	0	0	0	0	0	0	18	0	0	0	745089
AW68	0	0	0	91	8	95	17	0	0	0	0	0	0	0	0	0	0	0	0	723815
AW69	0	0	6	83	8	92	19	0	0	0	0	0	0	0	0	0	17	0	0	736213
AW70	0	0	10	126	18	108	34	30	0	0	0	0	0	0	0	22	0	40	0	814770
AW71	0	0	5	35	15	23	21	29	50	28	0	0	0	0	0	15	0	77	18	937628
AW72	0	0	3	76	20	102	18	9	0	0	0	0	0	0	0	0	0	27	0	805749
AW73	5	0	0	76	5	92	12	0	0	0	0	0	0	0	0	0	0	0	0	747962
AW74	0	0	0	68	4	90	13	0	0	0	0	0	0	0	0	0	20	0	0	681611
AW75	9	0	0	139	12	96	26	10	0	0	0	0	0	0	0	0	0	0	0	752630
AW76	0	0	0	103	8	93	22	14	0	0	0	0	0	0	0	0	0	28	0	758239
AW77	6	0	5	58	11	73	25	15	40	0	0	0	0	0	0	44	0	38	0	841717
AW78	0	0	4	29	13	37	17	18	39	0	0	0	0	0	0	5	0	48	9	913435
AW79	0	0	7	27	11	24	14	21	36	0	0	0	0	0	0	0	0	49	6	864168
AW80	0	0	0	15	0	34	0	0	0	0	0	0	0	0	0	0	35	0	0	778887
AW81	0	0	0	53	9	59	12	0	0	0	0	0	0	0	0	7	0	0	0	808756
AW82	0	0	0	96	9	100	24	0	0	0	0	0	0	0	0	0	0	0	0	709442
AW83	0	0	4	18	12	26	18	28	55	0	0	0	0	0	0	0	0	63	10	940816
AW84	0	0	6	112	21	220	60	21	0	0	0	0	0	0	0	11	0	0	0	682274
AW85	0	0	3	33	11	17	14	14	43	0	0	0	0	0	0	20	0	62	14	961459
AW86	4	0	5	74	15	126	21	11	27	0	0	0	0	0	0	7	0	36	6	878059
AW87	0	0	4	86	18	155	25	7	21	0	0	0	0	0	0	8	0	0	0	775164
AW88	0	0	8	168	21	99	21	29	0	0	0	0	0	0	0	9	0	40	0	722006
AW89	0	0	6	211	25	95	14	7	0	0	0	0	0	0	0	8	0	0	0	576366
AW90	0	0	7	150	15	99	16	0	0	0	0	0	0	0	0	6	0	0	0	636570
AW91	0	0	10	158	15	126	23	0	0	0	0	0	0	0	0	9	16	0	0	508330

Sample	As ppm	Se ppm	Rb ppm	Sr ppm	Y ppm	Zr ppm	Nb ppm	Mo ppm	Ag ppm	Cd ppm	Sn ppm	Sb ppm	W ppm	Au ppm	Hg ppm	Pb ppm	Bi ppm	Th ppm	U ppm	LE ppm
AW92	0	0	3	119	11	72	10	0	0	0	0	0	0	0	0	0	0	0	0	756616
AW93	0	0	8	202	22	112	32	22	0	0	0	0	0	0	0	0	0	27	0	768958
AW94	7	0	4	228	31	267	28	0	0	0	0	0	22	0	0	23	0	20	0	737781
AW95	0	0	6	100	10	114	19	0	0	0	0	0	0	0	0	0	0	0	0	715742
AW96	0	0	3	142	15	89	23	19	0	0	0	0	0	0	0	15	0	21	7	819356
AW97	0	0	0	53	8	75	17	11	0	0	0	0	0	0	0	0	0	0	0	801318
AW98	0	0	6	83	11	115	23	0	0	0	0	0	0	0	0	0	0	0	0	702814
AW99	0	0	5	74	11	37	12	16	0	0	0	0	0	0	0	0	0	26	0	863959
AW100	0	0	3	66	5	75	5	0	0	0	0	0	0	0	0	0	28	0	0	727366
AW101	4	0	3	62	3	103	17	0	0	0	0	0	0	0	0	0	26	0	0	672058
AW102	0	0	0	64	5	71	10	0	0	0	0	0	0	0	0	0	20	0	0	780669
AW103	0	0	7	58	13	63	10	0	0	0	0	0	0	0	0	0	0	0	0	802633
AW104	0	0	2	78	5	57	8	0	0	0	0	0	0	0	0	0	25	0	0	737630
AW105	4	0	8	151	9	98	8	0	0	0	0	0	0	0	0	0	30	0	0	556352
AW106	8	0	0	90	3	105	10	0	0	0	0	0	0	0	0	0	54	0	0	577502
AW107	7	0	4	100	11	199	37	0	0	0	0	0	0	0	0	9	29	0	0	544663
AW108	4	0	0	51	3	83	6	0	0	0	0	0	0	0	0	0	40	0	0	702726
AW109	0	0	4	111	7	87	4	0	0	0	0	0	0	0	0	0	32	0	0	598666
AW110	6	0	4	69	12	120	15	0	0	0	0	0	0	0	0	0	0	0	0	704600
AW111	0	0	0	87	12	170	25	0	0	0	0	0	0	0	0	0	19	0	0	574967
AW112	6	0	3	76	8	97	10	0	0	0	0	0	0	0	0	0	34	0	0	610300
AW113	0	0	0	52	3	65	0	0	0	0	0	0	0	0	0	0	24	0	0	730492
AW114	0	0	6	110	9	79	0	0	0	0	0	0	0	0	0	0	22	0	0	630506
AW115	0	0	0	97	8	130	30	0	0	0	0	0	0	0	0	0	0	0	0	650921
AW116	0	0	4	49	6	44	4	0	20	0	0	0	0	0	0	0	0	11	0	855172
AW117	5	0	0	106	5	138	15	0	0	0	0	0	0	0	0	0	44	0	0	592479
AW118	0	0	4	152	12	133	12	0	0	0	0	0	0	0	0	0	31	0	0	570518
AW119	5	0	3	51	3	87	11	0	0	0	28	0	0	0	0	0	30	0	0	726453
AW120	0	0	5	50	18	222	32	13	0	0	0	0	0	0	0	11	0	26	0	752983
AW121	0	3	7	83	11	91	0	0	0	0	0	0	0	0	0	0	21	0	0	674922
AW122	5	0	3	51	3	58	0	0	0	0	0	0	0	0	0	0	32	0	0	705154
AW123	6	0	3	118	10	127	15	0	0	0	0	0	0	0	0	0	25	0	0	559959
AW124	6	0	0	97	5	91	5	0	0	0	0	0	0	0	0	0	29	0	0	634041
AW125	5	0	2	69	0	66	0	0	0	0	0	0	0	0	0	0	34	0	0	725816
AW126	2	2	8	84	7	71	0	0	0	0	0	0	0	0	0	0	22	0	0	712727
AW127	7	0	0	124	8	155	20	0	0	0	0	0	0	0	0	0	50	0	0	522122
AW128	0	0	6	113	9	135	28	0	0	0	0	0	0	0	0	0	0	0	0	710583
AW129	0	0	0	90	9	134	27	0	0	0	0	0	0	0	0	0	0	0	0	645493
AW130	0	0	0	95	12	165	30	0	0	0	0	0	0	0	0	0	0	0	0	632577
AW131	6	0	6	116	9	102	15	0	0	0	0	0	0	0	0	0	17	0	0	678528
AW132	0	0	4	86	8	105	19	0	0	0	0	0	0	0	0	0	0	0	0	733149
AW133	7	0	3	70	15	182	27	0	0	0	0	0	22	0	0	34	0	17	0	695121
AW134	5	0	3	99	8	116	17	0	0	0	0	0	0	0	0	0	0	0	0	603145
AW135	0	0	3	66	21	185	17	0	0	0	0	0	0	0	0	7	0	0	0	753762
AW136	4	0	8	121	22	207	28	0	0	0	0	0	20	0	0	18	0	12	0	698956
AW137	0	0	8	159	14	108	24	9	0	0	0	0	0	0	0	21	0	0	0	711635

Sample	As ppm	Se ppm	Rb ppm	Sr ppm	Y ppm	Zr ppm	Nb ppm	Mo ppm	Ag ppm	Cd ppm	Sn ppm	Sb ppm	W ppm	Au ppm	Hg ppm	Pb ppm	Bi ppm	Th ppm	U ppm	LE ppm
AW138	0	0	3	118	9	114	8	0	0	0	0	0	0	0	0	0	16	0	0	601431
AW139	5	0	0	62	5	90	13	0	0	0	0	0	0	0	0	0	21	0	0	694352
AW140	0	0	3	56	12	76	16	0	0	0	0	0	0	0	0	0	0	0	0	729784
AW141	0	0	10	81	14	75	5	0	0	0	0	0	0	0	0	0	0	0	0	760665
AW142	0	0	5	63	0	86	16	0	0	0	0	0	0	0	0	0	0	0	0	715859
AW143	0	0	0	55	5	65	14	0	0	0	0	0	0	0	0	0	0	0	0	796405
AW144	0	0	3	122	13	116	13	0	0	0	0	0	0	0	0	0	19	0	0	580477
AW145	0	0	3	57	6	54	0	0	0	0	0	0	0	0	0	0	14	0	0	816867
AW146	0	0	0	46	4	78	4	0	0	0	0	0	0	0	0	0	29	0	0	695340
AW147	0	0	7	102	12	81	0	0	0	0	0	0	0	0	0	0	22	0	0	603136
AW148	0	0	5	46	4	55	7	0	0	0	0	0	0	0	0	5	11	0	0	787843
AW149	0	0	5	49	6	31	0	0	0	0	0	0	0	0	0	3	16	0	0	850662
AW150	0	3	7	38	17	46	3	0	14	0	0	0	0	0	0	0	0	0	0	783802
AW151	3	0	0	65	3	84	12	0	0	0	0	0	0	0	0	0	23	0	0	737126
AW152	5	0	0	73	3	90	8	0	0	0	0	0	0	0	0	0	31	0	0	652731
AW153	0	0	4	94	9	87	0	0	0	0	0	0	0	0	0	0	20	0	0	645823
AW154	4	0	0	76	4	86	5	0	0	0	0	0	20	0	0	0	33	0	0	662871
AW155	0	0	5	87	10	88	13	0	0	0	0	0	0	0	0	0	17	0	0	629495
AW156	4	0	0	132	11	117	10	0	0	0	0	0	0	0	0	0	29	0	0	524730
AW157	3	0	5	73	9	86	0	0	0	0	0	0	0	0	0	0	27	0	0	602812
AW158	0	0	2	65	4	51	0	0	0	0	0	0	0	0	0	0	33	0	0	766233
AW159	4	0	0	79	0	101	11	0	0	0	0	0	0	0	0	0	41	0	0	658673
AW160	0	0	4	16	9	16	9	5	28	15	0	0	0	0	0	37	0	38	7	955736
AW161	4	0	7	78	10	92	11	0	0	0	0	0	0	0	0	0	12	0	0	790921
AW162	0	0	4	24	6	18	7	0	28	0	0	0	0	0	0	0	0	18	0	875805
AW163	7	0	0	48	0	65	0	0	0	0	0	0	0	0	0	0	31	0	0	631297
AW164	5	0	0	65	5	85	5	0	0	0	0	0	0	0	0	0	22	0	0	725440
AW165	0	0	8	76	6	98	12	0	0	0	0	0	0	0	0	0	14	0	0	757041
AW166	0	0	0	94	9	87	15	0	0	0	0	0	0	0	0	0	0	0	0	751412
AW167	3	0	5	45	5	61	0	0	0	0	0	0	0	0	0	0	12	0	0	762333
AW168	0	0	3	52	8	73	3	0	0	0	0	0	0	0	0	0	17	0	0	740410
AW169	4	0	0	84	7	96	0	0	0	0	0	0	0	0	0	0	30	0	0	707626
AW170	4	0	8	113	13	82	6	0	0	0	0	0	0	0	0	0	0	0	0	716979
AW171	0	0	3	64	11	72	12	7	0	0	0	0	0	0	0	0	0	0	0	807890
AW172	0	0	3	67	4	92	10	0	0	0	0	0	0	0	0	0	17	0	0	695893
AW173	5	0	0	70	16	105	11	0	0	0	0	0	0	0	0	0	15	0	0	719689
AW174	0	0	0	67	0	46	0	0	0	0	0	0	0	0	0	0	25	0	0	776787
AW175	7	0	0	66	0	96	15	0	0	0	0	0	0	0	0	0	28	0	0	657519
AW176	0	0	9	142	18	117	25	16	0	0	0	0	0	0	0	0	0	21	0	784310
AW177	9	0	0	78	0	110	30	0	0	0	0	0	0	0	0	0	0	0	0	637675
AW178	0	0	0	64	5	93	21	0	0	0	0	0	0	0	0	0	0	0	0	666383
AW179	0	0	5	155	19	100	18	8	0	0	0	0	0	0	0	0	0	0	0	669705
AW180	10	0	3	63	11	94	23	0	0	0	0	0	0	0	0	23	0	0	0	775876
AW181	4	0	12	102	10	80	5	0	0	0	0	0	0	0	0	0	15	0	0	642142
AW182	0	0	10	93	13	86	16	0	0	0	0	0	0	0	0	0	0	0	0	730670
AW183	0	0	4	69	7	72	9	0	0	0	0	0	0	0	0	0	15	0	0	698566

Sample	As ppm	Se ppm	Rb ppm	Sr ppm	Y ppm	Zr ppm	Nb ppm	Mo ppm	Ag ppm	Cd ppm	Sn ppm	Sb ppm	W ppm	Au ppm	Hg ppm	Pb ppm	Bi ppm	Th ppm	U ppm	LE ppm
AW184	7	0	3	58	0	64	0	0	0	0	0	0	0	0	0	0	38	0	0	670911
AW185	4	0	4	56	6	83	10	0	0	0	0	0	0	0	0	0	37	0	0	653972
AW186	5	0	0	72	7	115	16	0	0	0	0	0	0	0	0	0	30	0	0	674771
AW187	0	0	0	66	4	113	13	0	0	0	0	0	0	0	0	0	18	0	0	756702
AW188	7	0	0	87	5	80	11	0	0	0	0	0	0	0	0	0	29	0	0	676291
AW189	0	0	9	160	14	141	26	0	0	0	0	0	0	0	0	10	0	0	0	669655
AW190	0	0	5	74	10	80	13	13	0	0	0	0	0	0	0	0	0	0	0	803650
AW191	0	0	5	107	14	123	28	0	0	0	0	0	0	0	0	0	0	0	0	633341
AW192	0	0	5	77	13	82	15	9	0	0	0	0	0	0	0	6	0	19	0	808957
AW193	0	0	0	53	0	56	0	0	0	0	0	0	0	0	0	0	29	0	0	700863
AW194	0	0	3	59	7	62	13	0	0	0	0	0	0	0	0	0	0	0	0	714785
AW195	0	0	3	112	22	114	19	0	0	0	0	0	0	0	0	0	0	0	0	621612
AW196	0	0	2	63	4	55	4	0	0	0	0	0	0	0	0	0	18	0	0	804437
AW197	0	0	4	35	6	51	7	0	0	0	0	0	0	0	0	0	0	0	0	803157
AW198	11	0	0	104	8	115	20	0	0	0	0	0	0	0	0	0	26	0	0	632931
AW199	0	0	5	132	24	294	70	28	0	0	0	0	0	0	14	24	0	38	0	672199
AW200	10	0	5	114	7	102	10	0	0	0	0	0	0	0	0	16	19	0	0	649141

LE = light elements with atomic # <18 (Argon)….usually Mg, Al, Si, P, S and Cl

APPENDIX D-MAPS

Map 1: Mineral Tenures of the Adam West Property

N

704000 706000 708000 710000 712000

5580000 5578000 5576000 5574000 5572000 5570000 5568000

Adam West Property

1071794

1049417

1057924

1057922

1057941

1058977

Adam River

NAD 83, Zone 9
Scale 1:25,000
Contour Interval 40 m

0 1,000 2,000 Meters

Map 2: Rock Samples Collected in 2020 on the Adam West Property

N

706000 708000 710000 712000

5578000 5576000 5574000 5572000 5570000 5568000

19255
19256
19257
19258
27316
27289
27291
27315
27292
27293,294
27295
27296
27297
27309,474
27298-301,462-467,473
27314,475
27313
27311,312
27302,303,468
27308,472
27304-307,469-471
27317
27320
27318,319
27321-328,476,477
27457,458
27269,271-274,456
27251
27265-268
27252
27461
27288
27287
27284-286
27276-280
27275
27281-282
27264
27253
27283
27459
Adam West Property
27263
27255,256,262,452-455
27260,261,451
27259
27257,258
27254

Logging Road

12345 Sample Location, Number

Contour Interval 40 m. Datum: NAD83, Zone 9
Scale 1:15,000

0 500 1,000 2,000 Meters

Map 3: Copper and Gold Assays from Samples Collected in 2020 on the Adam West Property

N

706000 708000 710000 712000

5578000 5576000 5574000 5572000 5570000 5568000

774; 0.48
1270; <0.005
1520; <0.005
1950; 0.229
1010; 0.024
1820,681; 0.017,0.058
3600,582 ; 0.015,0.016
8920,12050,16200,38700,30800,65500,53900,35600,20100; 0.008,0.043,0.025,0.047,0.018,0.181,0.079,0.057,0.138
1550,2820; 0.018,0.137
284; 0.013
232,992; <0.005,0.081
29500,17700,24600; 0.056,0.005,0.026
3150; 0.025
117000,9660; 0.3,0.012
652; 0.041
97; <0.005
1060; 0.083
2690,20600,4950,1270,22200, 16650,2870; 0.097,1.95,<0.005, 0.019,2.52,0.074,0.01
8980; 0.751
4340; 0.012
13550,25200,86800,464000,126500,207000, 15450,187500,295000,192500; 0.089,0.039,0.051, 0.054,0.049,0.025,0.02,0.028,0.031,0.078
366,949; 0.347,0.33
1930; 0.103
9190,11750; 0.044,0.026
421; 0.005
822; <0.005
9630,25500; 0.032,0.035
24300,36800,17750,13600,31700,6090; 0.006,0.01,0.008,0.014,0.009,0.051
4500; 0.07
8400,13400,2370,6110; 0.016,0.016,0.01,0.013
19300; 0.008
1020; 0.007
199; 0.141
86; 0.005
688,457,343; <0.005,0.005,0.006
2420,3580,125,332,172; 0.062,0.059,<0.005,1.67,0.09
426; 0.006
6520; 0.007
224; 0.011
221,2020; 0.006,0.018
92; <0.005
1210; 0.006
Adam West Property
94; 0.006
146,140,141,836,243,329,15450; 0.01, <0.005,<0.005,0.012,<0.005,0.018,16.55
73; 0.129
146,107,12600; 0.006,0.005,0.486
13600; 0.016
56,283; <0.005,0.007

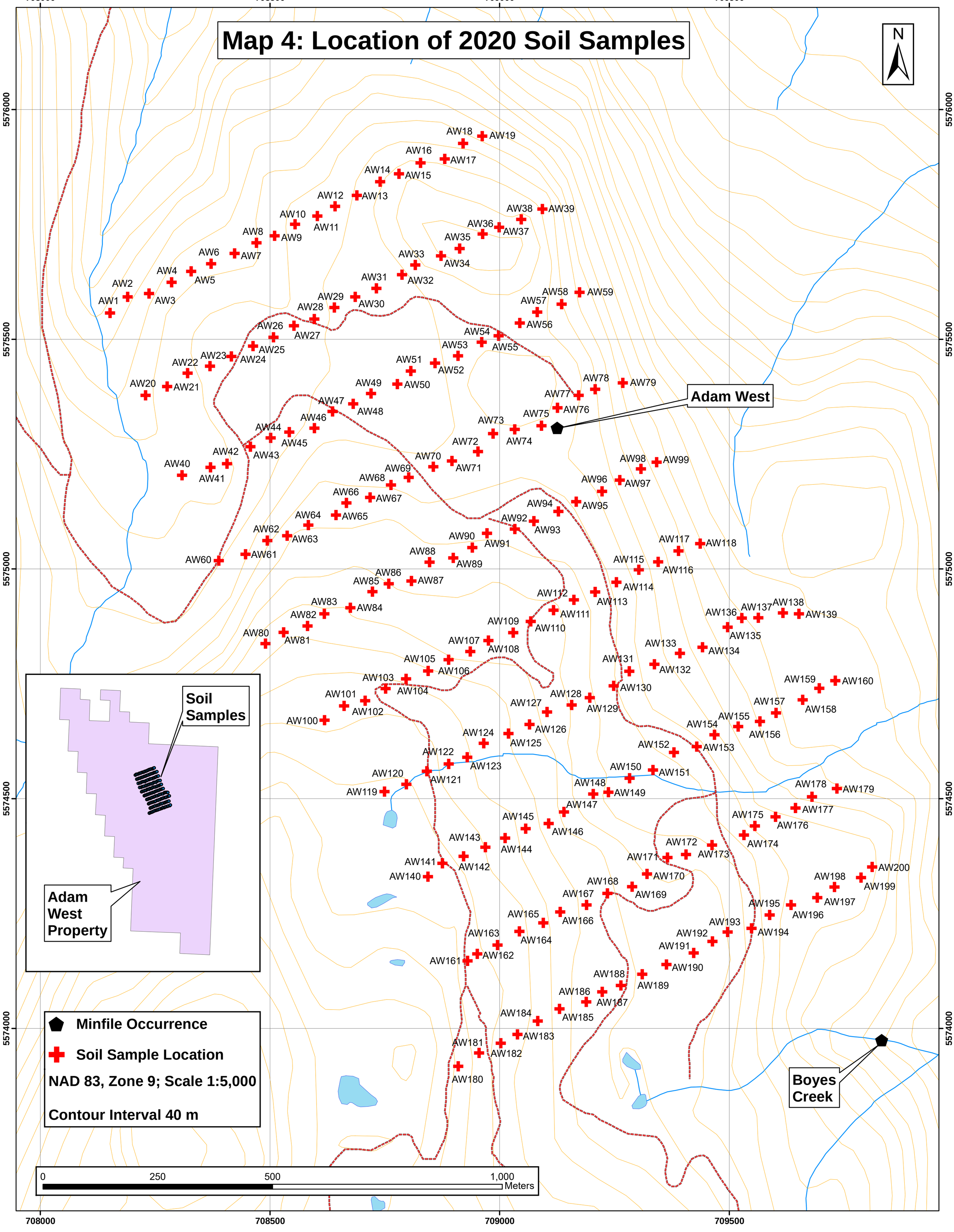
Logging Road

xx; yy
Sample Location, Cu (ppm); Au (g/t)

Contour Interval 40 m. Datum: NAD83, Zone 9
Scale 1:15,000

0 500 1,000 2,000 Meters

Map 4: Location of 2020 Soil Samples



Map 5: Copper Values of 2020 Soil Samples