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BC Geological Survey Assessment Report 37886

Ministry of Energy and Mines
BC Geological Survey

Assessment Report Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Technical: Geological and Geochemical **TOTAL COST:** 10454.92

AUTHOR(S): Anastasia Ledwon **SIGNATURE(S):**

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): **YEAR OF WORK:** 2018

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5715166 and 5725855

PROPERTY NAME: New Strike

CLAIM NAME(S) (on which the work was done): 1055486 (NEWSTRIKE), 1063709 (NewStrike), 1063708 (Newstrike)

COMMODITIES SOUGHT: Ag, Au, Cu, Pb, Zn

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 092N 047, 092N 035, 092N 059

MINING DIVISION: Clinton **NTS/BCGS:** 092N057

LATITUDE: 51 ° 33 ' 9 " **LONGITUDE:** -124 ° 44 ' 19 " **(at centre of work)**

OWNER(S):

1) DSM Syndicate Holdings Ltd. 2)

MAILING ADDRESS:

1010-1130 West Pender Street
Vancouver, BC V6E 4A4

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

1) DSM Syndicate Holdings Ltd. 2)

MAILING ADDRESS:

s/a

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

Coast Plutonic Complex
Middle Jurassic, Upper Cretaceous, mid-Cretaceous, late Cretaceous, Eocene, Miocene
sedimentary, volcanic, Tyaughton strata, Yalakom/Tchaikazan/Ottarasko Faults, Tyaughton Trough
quartz diorite, porphyritic granitic stocks, plateau basalt, silicification, pyritization, quartz veining, hydrothermal alteration

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 13150, 17392, 18250, 19355, 25551

Next Page

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock	25 samples	1055486, 1063709, 1063708	10454.92
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	10454.92

GEOLOGICAL AND GEOCHEMICAL ASSESSMENT REPORT FOR THE NEW STRIKE PROPERTY

Clinton Mining Division, British Columbia
51° 33' 9"N/124° 44' 19"W
NTS Map Sheet: 092N 10

Event #s: 5715166 and 5725855

Prepared for:
DSM Syndicate Holdings Ltd.
Vancouver, BC

Prepared by:
Anastasia Ledwon, B. Sc (Hons), P.Geo.
Smithers, BC

January 10, 2019

Tables of Content

1. Summary

The New Strike property is comprised of three (3) claims, located in the Clinton mining district on NTS map sheet 092N 10. The 1688.05 hectares (total) were staked by DSM Syndicate Holdings Ltd. ("DSM") of Vancouver, BC in October of 2017 after a short reconnaissance prospecting program the previous summer.

The area is rugged and mountainous, part of the Coast Plutonic Complex in the coastal mountains of British Columbia. Three (3) MINFile reports are contained within the property and the area has been actively explored for decades, mainly for gold, silver, copper, lead, and zinc. As the snow pack continues to recede and expose previously unseen ground, exploration has been reinvigorated in the region.

This report was compiled from data provided by DSM and based on a short fieldwork program of prospecting and rock sampling done between August 8-11, 2018.

2. Introduction and Terms of Reference

2.1 History and Ownership

The New Strike tenures are owned 100% by DSM, staked in October of 2017 after a reconnaissance exploration program returned grab sample values of note.

Exploration of the region has been ongoing since the early 1900s, particularly to the southeast of the existing New Strike property on the Argo-Langara showings, but hampered by the rugged nature of the area and lack of accessibility (Culbert, 1988).

The central portion of the existing property was worked between 1936 and 1939, with the discovery of the Blackhorn Vein, and included underground exploration and drilling (Kasper, 1998). Approximately 3.5 tons of high-grade ore was processed in 1938, with recoveries of gold totaling $275.00 (suggesting a grade of 76.88 g/tonne using $35/oz) (Kasper, 1998). 1980 to 1984 saw renewed interest with prospecting and mapping, but the claims were allowed to lapse in 1987 (Kasper, 1998).

In July of 1983, Homestake Mineral Development Company worked a regional reconnaissance program that included the headwater areas of Ottarasko Creek (now within tenures 1055486 and 1063709). In August of that same year, Homestake returned to the area to follow up on a stream sediment anomaly, and the subsequent discovery of in-situ gold-bearing arsenopyrite mineralization led to the staking of several claims (Lori 1-4). The claims were allowed to lapse in 1985.

In 1987 and 1988, Beaty Geological Ltd. was contracted by Equinox Resourses Ltd. to do prospecting, sampling, and air photo review on the Loot 1 and 2 claims, which overlap with tenures 1055486 and 1063709.

Between 1987 and 1994, Louis Berniolles staked and prospected the HW1, HW4, and HW5 claims to trace a possible northward extension of mineralization from claims he had worked to the south. These claims overlap with 1063708 and 1063709. Several new mineral occurrences were discovered, including copper-nickel sulphides in the Atwood area, areas of copper-rich quartz float, auriferous quartz veining, and several showings (Kasper, 1998).

In 1997, claims OTR4 and OTR3 (among others) were explored by Blackhorn Gold Mines Ltd. and are currently overlain by 1063708 and 1063709 (Kasper, 1998).

2.1 Property Description

The New Strike property is located within the Coast Plutonic Complex in the Coast Range of British Columbia (Figure 1). The tenure area is rugged and steep, with numerous u-shaped glacial valleys, streams, and glacier-topped mountains. The eastern-most section of the property includes the headwaters of Ottarasko Creek (the creek eventually empties into Tatlayoko Lake). South of the claims and trending to the southeast is the Nuit Range.

The property consists of three (3) mineral tenures and totals 1688.05 hectares (Figure 2). See Table 1 for tenure details.

Table 1. Mineral tenure details for New Strike property.

Tenure No.	Tenure Name	Issue Date	Good-To Date	Area (ha)
1055486	NEWSTRIKE	Oct. 11, 2017	Jan. 5, 2020	241.18
1063708	Newstrike	Oct. 11, 2017	Jan. 5, 2020	140.67
1063709	NewStrike	Oct. 11, 2017	Jan. 5, 2020	1306.20
			TOTAL ha:	**1688.05**

Figure 1. Location map.

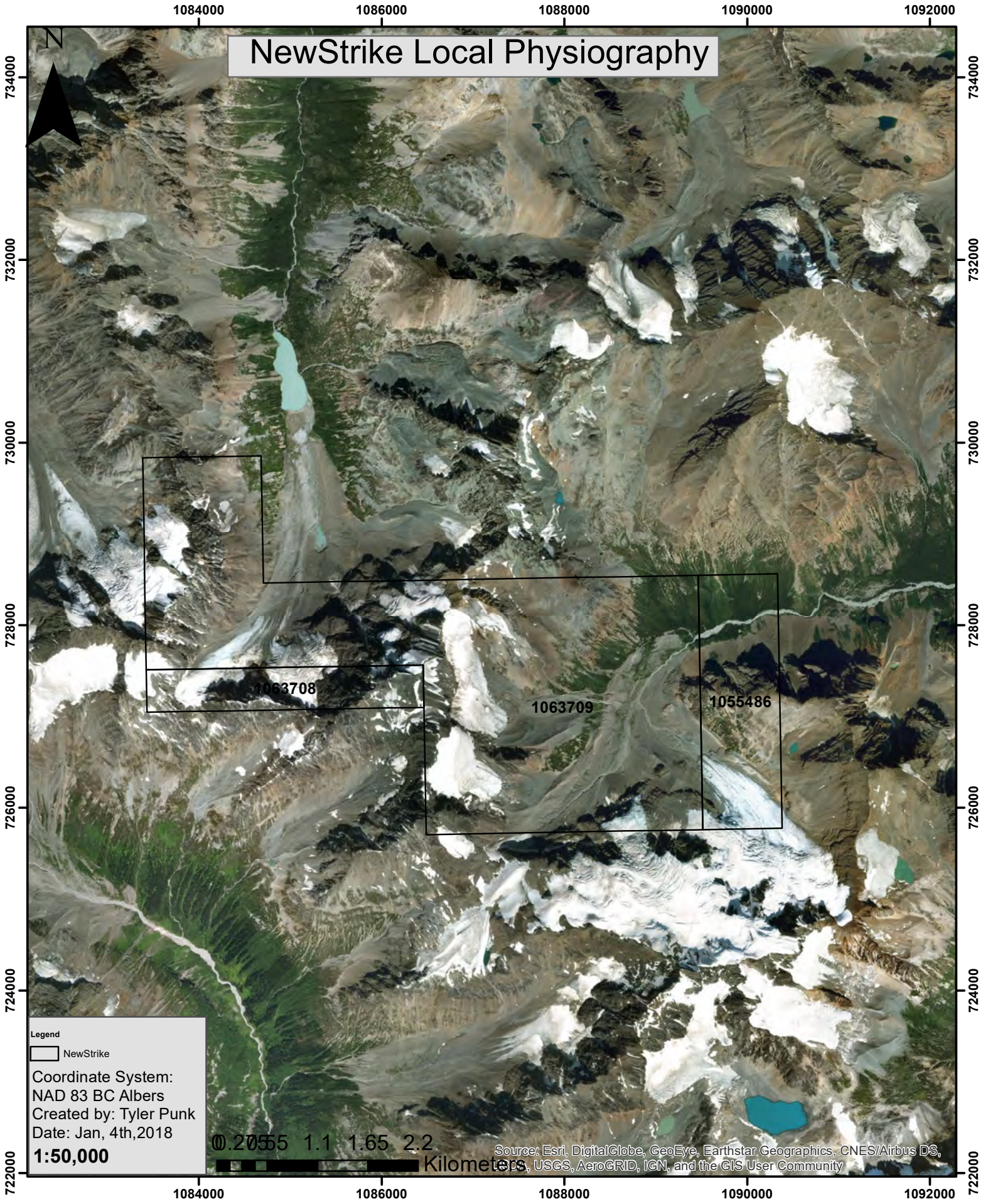

Figure 2. Mineral tenure map.

2.1 Accessibility and Infrastructure

Access to the claims is currently by helicopter from Campbell River (on Vancouver Island) to Bute Inlet. Helicopter was used to move around the property. Additionally, the village of Tatla Lake is approximately 40km to the north, located on Highway 20 between Bella Coola and Williams Lake in west-central British Columbia. Vancouver is 270km south-southeast of the property.

2.1 Climate and Physiography

The property boasts little vegetation as much of the current exposure is recent due to receding glaciers and snow packs. Some timber is present below 1800m but generally the property consists of rocky, bare, steep mountain sides, and snow packs and/or glaciers at the highest elevations. Valley vegetation includes balsam, jackpine and spruce with light underbrush along valley floors (Culbert et al, 1988).

The climate is moderate with snow in the area between November and May. Summers consist of warm days and cool nights. Spring and fall see frequent rains of shorter durations although much of the eastern portion of the property lies in a rainshadow (Culbert et al, 1988).

Elevation ranges from approximately 1500m along Ottarasko Creek to approximately 2600m on the highest peak. Mount Waddington, BC's highest point at 4016m, lies about 45km west of the property.

3. Geological Setting

3.1 Regional Setting

See Figure 3 for the regional geology map.

From Culbert et al, 1988:

> The general geology of this part of the Coast Mountains has been compiled by the Geological Survey of Canada and published as Open File 1163 (Roddick et al 1985). The National Stream Sediment Geochemical Reconnaissance has been published for the two mapsheets to the east. The area is presently being mapped in some detail as part of doctorate thesis under the auspices of Glenn Woodsworth of the G.S.C. The B.C. Department of Energy, Mines and Petroleum Resources has been studying the geology (McLaren 1986a), stream sediment geochemistry (McLaren 1986b), lithochemistry (McLaren 1987), and mineral potential of the area west of Chilko Lake, 20 to 30 km southeast of the property. Over the years, the Taseko Lake area, 80 km to the southeast of the property, has been well documented. More recently the Warner Pass Area southeast from Taseko Lake was studied (Glover and Schiarizza 1987). Woodsworth and others (1977) studied metal distribution patterns across the eastern flank of the Coast

Plutonic Complex. The following description of general geology is summarized partly from the above references

These areas and the northwest extension of them to the LOOT claims and beyond are part of an extensive northwest-trending basin of sedimentary and volcanic rocks along the east margin of the Coast Plutonic complex. These Middle Jurassic to Upper Cretaceous rocks were deposited in the Tyaughton Trough, a narrow northwest-trending depositional basin that evolved from marine to continental conditions with much disruption during the uplift of the Coast Mountains in mid-Cretaceous time. They were intruded at that time by quartz diorite and related rocks of the Coast Plutonic Complex, and later by porphyritic granitic stocks of late Cretaceous and Eocene age.

The general line of the granitic contact trends northwest but is locally irregular in detail, projecting northeast where valley erosion to increasing depths has exposed the contact further in that direction.

All rocks were overlain unconformably by Eocene volcanic and sedimentary rocks and by extensive flows of Miocene plateau basalt.

Layers and beddings in the Tyaughton strata trend mainly northwest, but are locally folded and overturned and otherwise disturbed by the uplifting effects of the intrusions and by the translation effects of strong thrust long regional transcurrent faults.

The principal transcurrent faults are the northwest-trending sub-parallel Yalakom, Tchaikazan and Ottarasko Faults. Right-lateral displacement of 175 km along the Yalakom Fault has been postulated, and similar right-lateral displacement of 32 km along the Tchaikazan Fault has likewise been inferred. There is much additional strong faulting in areas between these major faults.

The Tchaikazan Fault, which runs along the front of the Coast Mountains, appears to be the northwest extension of the economically important fault system at the formerly producing Bralorne and Pioneer Mines, which collectively produced 24.5 m grams (4,003,000 oz.) of gold from 7.26 m tonnes (8,006,000 tons) of ore with Au-Ag ratio of 5.2. A strong range front fault such as the Tchaikazan can create permeable conduits for convecting water heated by nearby intrusive rocks and, if these waters contain dissolved metals, portions of such faults or areas nearby could become centres of deposition of sulphides and other minerals.

As the Tchaikazan Fault appears to be the projection of the fault system at Bralorne-Pioneer (Glover and Schiarizza, 1987), and as it passes through several mineralized areas described below, and as Federal and Provincial geochemical coverage along it shows anomalous Au-Ag-As analyses, it can be concluded that good exploration potential for precious metals exists along it and along other similar or related faults.

A large number of mineral showings occur in rocks of the Tyaughton Trough where affected by intrusions. Some have mesothermal and others epithermal characteristics. Many of these are in the portion of the trough northwest from Bralorne and in the Taseko District. Fewer of these showings are known in the more inaccessible areas further to the northwest in the Chilko, Tatlayoko, and Bluff Lakes areas and beyond towards Perkins Peak. Most of the ones known are precious metal showings with some epithermal characteristics and associated mercury, arsenic and sometimes antimony.

The better known showings are the Alexis Property, 38 km southeast from the LOOT claims; the Morris Mine, 24 km to the southeast; Blackhorn Mountain, 11 km to the northwest; and Perkins Peak, 40 km to the northwest Figure *.

At the Alexis property, Cu-Hg-As-Sb mineralization occurs in silicified fractures and in pervasive ankeritic alteration of the Tchaikazan Fault which disrupts mid-Cretaceous volcanic and sedimentary rocks and which contains discontinuous dykes and stocks of diorite rocks.

The Morris Mine, owned by McNellen Resources of Toronto, is characterized by Au-Ag-Sb-As in north-northwest striking, east-dipping coxcomb quartz veins cutting silicifed early Cretaceous and/or late Triassic sandstone and siltstone near a small stock of quartz diorite and among diorite dykes.

At Blackhorn Mountain, Au-Ag-As-Pb-Zn-Cu mineralization occurs as pods, veins and disseminations in late Triassic faulted and pyritized schists, argillites, andesitic tuffs and breccias, all of which are intruded by granitic dykes and sills.

Mineralization at the Perkins Peak area consists of Au-As values in east striking quartz veins and lenses in silicified and pyritized argillite and fine sandstones, all of which are cut by altered dykes. Granitic rocks of the Coast Plutonic Complex are 3 km to the northwest.

Prominent geological features common to these properties are silicification, pyritization, faulting and quartz veining in Tyaughton Trough sedimentary and volcanic strata near intrusions; and gold-silver mineralization associated with arsenic and, in places with antimony, mercury and other base metals. In summary, known gold mineralization and/or geochemical anomalies associated with pronounced hydrothermal alteration zones, silicification and sulphidization along faults and contact zones in this geological environment have good exploration merits.

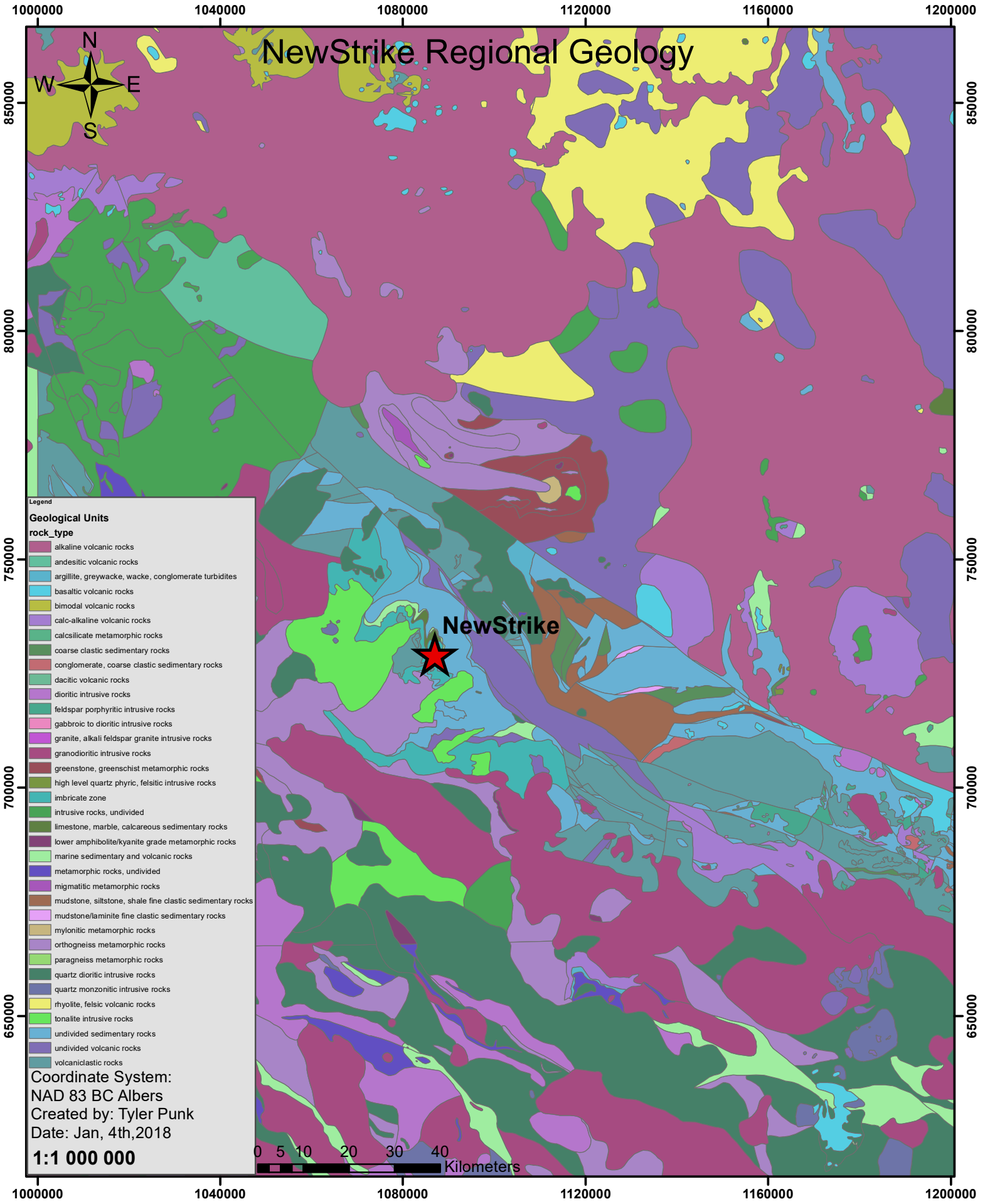

Figure 3. Regional geology map.

3.2 Local/Property Geology

See Figure 4 for the property geology map.

From Ronning, 1984:

> Geological Survey of Canada Map 5-1968 shows the claims area as being underlain by an overthrust sheet of upper Triassic andesitic breccia, tuff and flows with some shale and limestone, It is overthrust on to younger Triassic limestone, shale and greywacke and conglomerate. The thrust faults are westerly to southwesterly dipping.
>
> Prospecting and brief examinations by Homestake geologist indicate that the general picture as indicated by Map 5-1968 is probably correct although in detail it is considerable more complex. Except in the A Zone of the Lori 1 claim work by HMDC was too cursory to warrant modification of the existing geological map.

From Culbert et al, 1988:

> Present mapping by the G.S.C indicates that the area may be considerably more complex in terms of thrust faulting than previously believed. The closest granitic rocks of the Coast Plutonic Complex are mapped on the south side of Ottarasko Mountain. The major Ottarasko Fault is approximately 3 km east of the property boundary.

Additionally, surficial geology from Culbert, 1988:

> Interpretation of geochemical sampling is directly affected by the glacial history and deposits in this area, and the surficial terrain may be roughly divided into four regions.
>
> i) Valley Moraine and Outwash: The base of Ottarasko Creek Valley and its upper basin is comprised of debris from the valley glacier. This includes material from the extensive lateral moraines whose walls mark the terrain boundary, debris from hanging glacier and rockslide action along the valley head walls and also glaciofluvial material redistributed by Ottarasko Creek, avalanches and glacial surges. It is not possible to determine where float sampled from this regime originated within the watershed.
>
> ii) Ground Moraines: Apparently older moraines and tills occur on the north side of Ottarasko Valley, in part involving rounded boulders which have been subject to glaciofluvial action. Float originating in this terrain is also of unknown origin.
>
> iii) Talus Slides and Pocket Moraines: Extensive talus slides are found in the property, and there are also debris areas formed by local "alpine" glaciers. Mineralized float found in these regimes could quite likely be traced to origin.

iv) Exposed Slopes: The northwestern sector of the property entails a series of slopes and gullies dropping into Ottarasko Creek and an adjacent cirque. Glacial debris has largely been stripped from this area by erosion and the silt anomalies found in the streams probably are relevant to sources in the immediate vicinity.

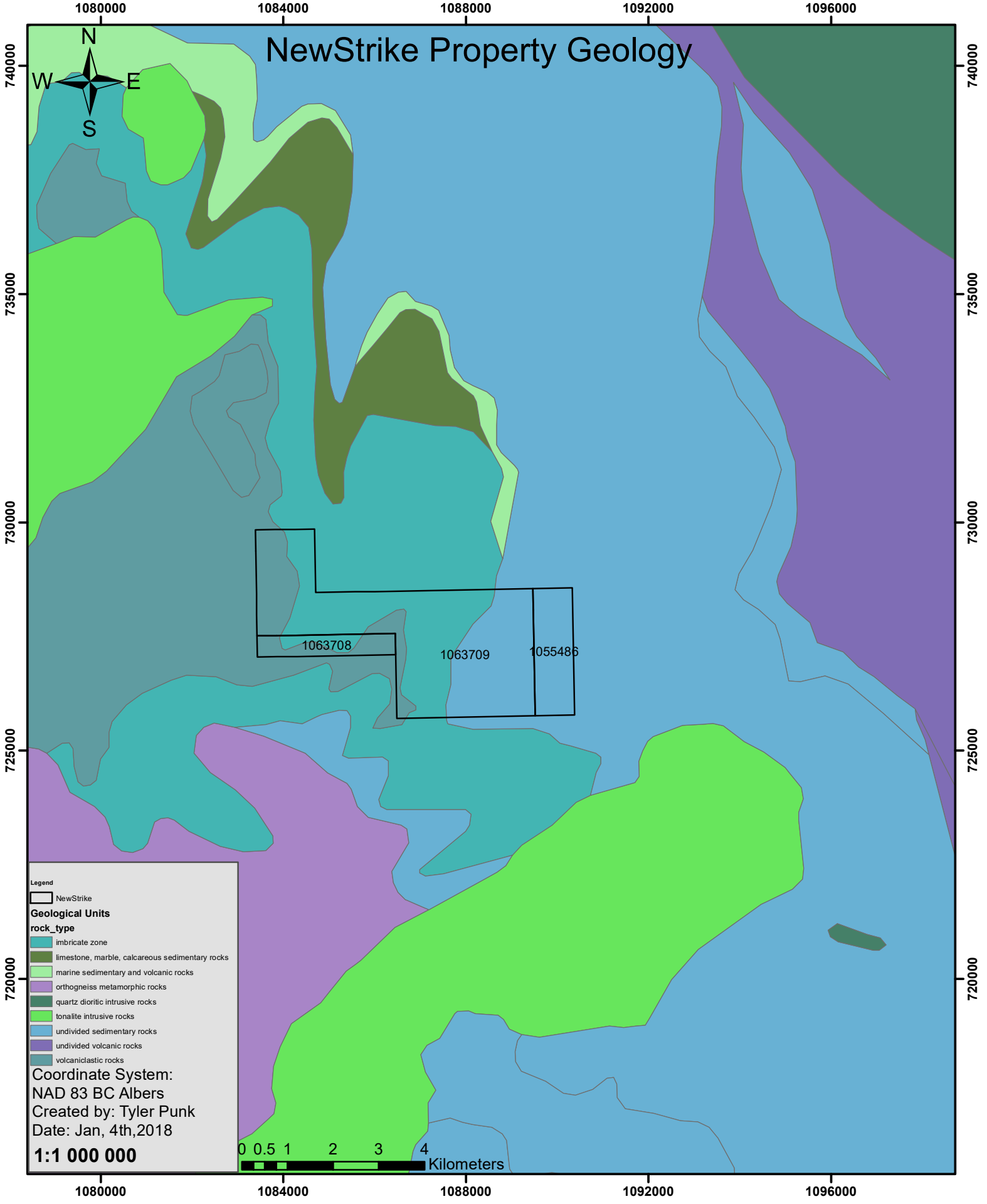

Figure 4. Property geology map.

3.3 Mineralization and Alteration

Homestake found that mineralization in their area of interest ("A Zone") was entirely restricted to quartz veins (this was in the eastern portion of the property). The veins contained pyrite and some arsenopyrite, the latter of which was found necessary if gold was present, even if the gold was not actually bonded in the arsenopyrite (Ronning, 1984). The company concluded that mineralization was "too restricted and too sporadic to support any sort of mining operation." Interestingly, in 1994 the Land Use Plan for the Cariboo-Chilcotin denied this area any sort of protected status due to the high mineral potential identified (Kasper, 1998). Kasper, 1998, suggests that the gold-with-arsenic veining is "the most significant mineralization discovered on the property to date."

Gold was found in association with copper in the central-to-western portion of the property by Berniolles in 1989, on the HW1, HW4, and HW5 claims. Samples were taken from both float and bedrock, and this gold-with-copper was also almost always associated with quartz. He also noted the gold-with-arsenopyrite that Homestake found in the eastern claim areas.

Copper-nickel sulphides related to mafic intrusives (central-southern portion of the property) are the third type of mineralization that has been noted on the property (Kasper, 1998).

4. Exploration

4.1 Rock Geochemistry

4.1.1 Sampling Method and Approach

Twenty-five (25) chip and grab samples were taken (details in Appendix A: Field Notes). Rock chip and grab samples were collected by foot with helicopter assistance. The rock sampling locations were chosen by geologists based on potential source areas of MINFile locations, placer creek occurrences, regional soil anomalies, and potential gossans based on high-resolution satellite imagery (Figure 5). The rock sample sites in the field were chosen by geologist based on alterations and/or the potential for mineralization, along with areas of visible mineralization.

The rock chip and grab samples were extracted using a rock hammer, or hammer and chisel, to expose fresh surfaces and to liberate a sample of approximately 0.5 to 6.0 kilograms. All sample sites were flagged with biodegradable flagging tape and marked with the sample number. All sample sites were recorded using hand-held GPS units (accuracy 1-10 meters) and the following information was recorded on all-weather paper: sample ID, easting, northing, elevation, type of sample (outcrop, subcrop, float, talus, chip, grab, etc.), chip length, and a description of the rock.

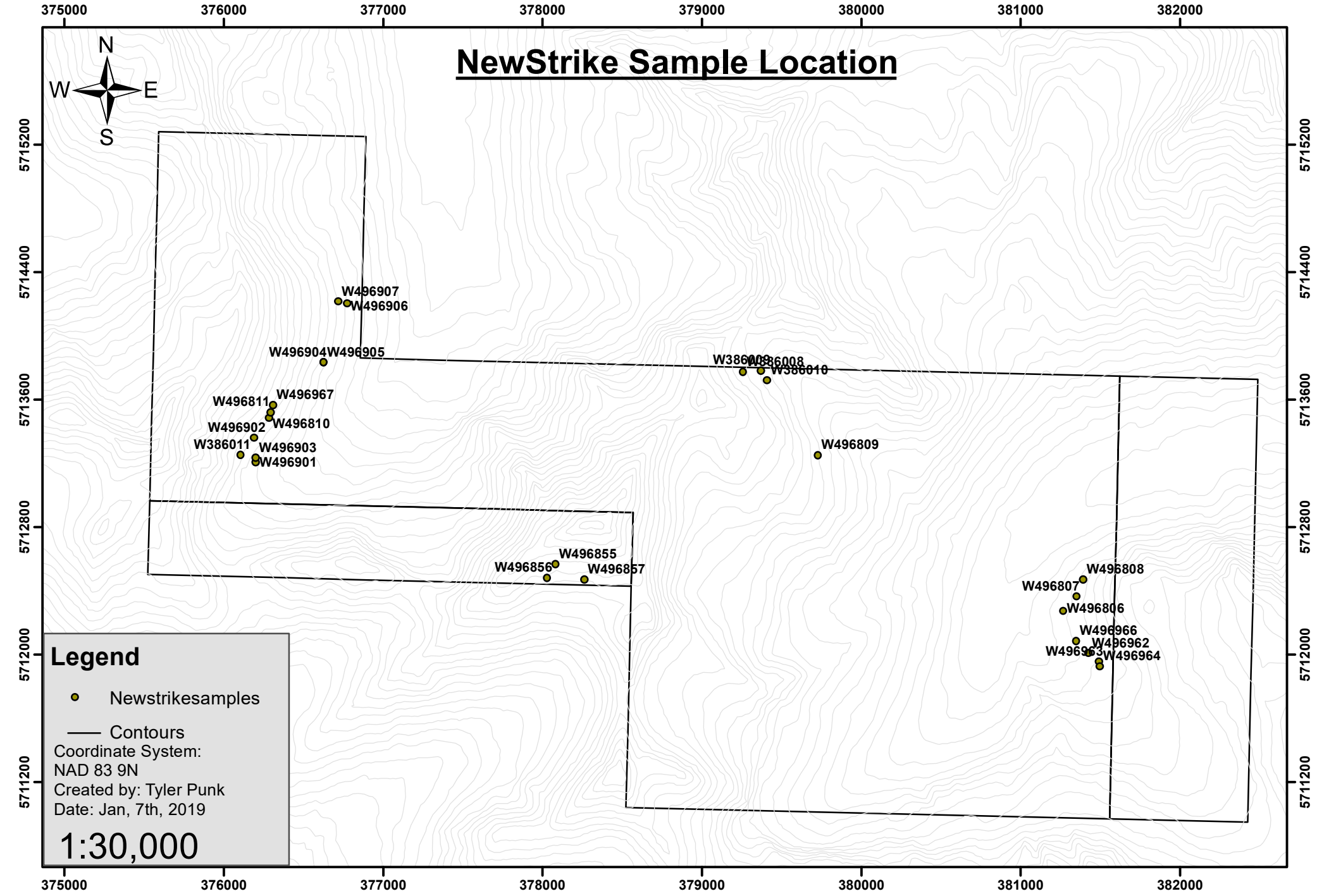

Figure 5. Sample location map.

4.1.2 Sample Preparation, Analyses and Security

All rock and channel samples were crushed and pulverized at ALS Canada Ltd.'s lab in Vancouver, BC. ALS is either Certified to ISO 9001:2008 or Accredited to ISO 17025:2005 in all of its locations. The resulting sample pulps were analyzed for gold by fire assay in Reno, Nevada or in Vancouver, BC. The pulps were also assayed using multi-element aqua regia digestion at ALS Canada Ltd.'s lab in Vancouver, BC. The coarse reject portions of the rock samples, as well as the pulps, were shipped to DSM Syndicate's storage facility in Terrace, BC. All samples were analyzed using ALS Canada Ltd.'s assay procedure ME-ICP41, a 1:1:1 aqua regia digestion with inductively-coupled plasma atomic emission spectrometry (ICP-AES) or inductively-coupled plasma mass spectrometry (ICP-MS) finish for 35 elements as well as the Au-AA24 lead-collection fire assay fusion procedure with atomic absorption spectroscopy (AAS) finish. Any results greater than 100 ppm for silver or 10,000 ppm copper, lead and zinc were additionally assayed using ALS's OG46 method particular to each element. This method used an HNO3-HCl digestion followed by ICP-AES (or titrimetric and gravimetric analysis). Gold values of greater than 10 ppm Au were assayed by the Au-GRA22 method which includes a fire-assay fusion procedure with a gravimetric finish.

Due to the reconnaissance nature of the program, no independent blanks, standards or duplicates were inserted into the sample stream.

4.1.3 Data Verification

Review of the provided assay certificates (encrypted) from ALS Canada Ltd show that ALS employs standard QA and QC protocols; as such, the verification methods are recognized as being adequate for the current program.

4.1.4 Results

See Appendix B for geochemical assay results maps. The property has been divided into two (2) sections in the maps: the eastern portion and the northwest. Maps show assay results for copper, gold, lead, silver, and zinc.

The small 2018 field program worked to verify samples collected during one day of reconnaissance prospecting done on the property in 2017 (before the claims were staked), and tried to replicate historic grab sample assays of up to 89 grams per tonne gold (MINFile 092N 047). Both programs led to the discovery of the Sugar Bowl Zone, a 400m x 250m wide zone defined by mineralize grab and chip samples, which remains open in all directions (Juggernaut, Feb 2018). Assays from this zone have returned values up to 6.64 grams per tonne gold (grab samples from float in 2018) while talus grab samples taken farther to the west (in 2017) returned assays up to 1.51 grams per tonne gold and 0.27% copper (Juggernaut, Dec 2018).

5. Conclusions and Recommendations

As recommended in previous reports, a follow-up program of extensive prospecting, mapping, and geochemical sampling is suggested. This will aid in tracing float to source bedrock and delineating the quartz veining across the property. An alteration study would also assist in outlining the full extent of the Sugar Bowl Zone and delineating drill targets.

6. Statement of Costs

Exploration Work type	Comment	Days			Totals
Personnel (Name)* / Positio	**Field Days (list actual days)**	**Days**	**Rate**	**Subtotal***	
Nic Goepell	Aug 8, 2018	1	$350.00	$350.00	
Ryan Purnell	Aug 9, 2018	1	$300.00	$300.00	
Jay Chornobay	Aug 8, 2018	1	$400.00	$400.00	
Ewan Webster	Aug 9, 11 2018	2	$300.00	$600.00	
			$0.00	$0.00	
			$0.00	$0.00	
				$1,650.00	**$1,650.00**
Office Studies	**List Personnel (note - Office only, do not include field days**				
Literature search			$0.00	$0.00	
Database compilation			$0.00	$0.00	
Computer modelling			$0.00	$0.00	
Reprocessing of data			$0.00	$0.00	
General research			$0.00	$0.00	
Report preparation	A. Ledwon, P.Geo	10.0	$80.00	$800.00	
GIS and report prep	T. Punk, GIS	10.0	$60.00	$600.00	
				$1,400.00	**$1,400.00**
Geochemical Surveying	**Number of Samples**	**No.**	**Rate**	**Subtotal**	
Drill (cuttings, core, etc.)			$0.00	$0.00	
Stream sediment			$0.00	$0.00	
Soil			$0.00	$0.00	
Rock	25		$0.00	$505.43	
Water			$0.00	$0.00	
Biogeochemistry			$0.00	$0.00	
Whole rock			$0.00	$0.00	
Petrology			$0.00	$0.00	
Other (specify)			$0.00	$0.00	
				$505.43	**$505.43**
Transportation		**No.**	**Rate**	**Subtotal**	
Fixed wing airplane	Corilair, Tsayta		$0.00	$1,555.12	
Taxi			$0.00	$0.00	
truck rental			$0.00	$0.00	
kilometers			$0.00	$0.00	
ATV			$0.00	$0.00	
fuel			$0.00	$0.00	
Helicopter (hours)	Silverking		$0.00	$3,489.84	
Fuel (litres/hour)			$0.00	$494.51	
Other					
				$5,539.47	**$5,539.47**
Accommodation & Food	**Rates per day**				
Hotel	Bute Inlet Lodge		$0.00	$932.00	
Camp			$0.00	$0.00	
Meals			$0.00	$16.34	
				$948.34	**$948.34**
Miscellaneous					
Telephone			$0.00	$0.00	
Other (Specify)	Field supplies			$161.06	
				$161.06	**$161.06**
Equipment Rentals					
Field Gear (Specify)			$0.00	$0.00	
Other (Specify)					
				$0.00	**$0.00**
Freight, rock samples					
	Oceanview Helicopters		$0.00	$250.62	
			$0.00	$0.00	
				$250.62	**$250.62**
TOTAL Expenditures					**$10,454.92**

7. References

Berniolles, L. 1989. Prospecting Report HW1, HW4, HW5 Claims. Ministry of Energy and Mines. BC Geological Survey Assessment Report 19355.

Culbert, R., Lammie, C.A.R., and K. Heberlein. 1988. Geochemical, Prospecting and Air Photo Study Report for Assessment Purposes on the Loot 1-2 Claims. Ministry of Energy and Mines. BC Geological Survey Assessment Report 17392.

Culbert, R. 1988. Geochemical and Prospecting Report on the Loot 1 and Loot 2 Claims. Ministry of Energy and Mines. BC Geological Survey Assessment Report 18250.

Glover, J.K. and Schiarizza, P. 1987. Geology and Mineral Potential of the Warner Pass Map Sheet, B.C. Energy, Mines, and Petroleum Resources, Geological Fieldwork, Paper 1987-1.

Juggernaut Exploration Ltd. (February 2018). DSM Syndicate discovers 400m x 250m zone with grabs up to 2.78 grams per tonne gold in area of glacial recession (press release). Source: https://juggernautexploration.com/wp-content/uploads/2018/02/JUGR-Newstrike.pdf

Juggernaut Exploration Ltd. (December 2018). DSM Syndicate samples 1 metre chip of 15.75 g/t Au and 1845 g/t Ag (53.9 oz/T) on Skyhigh property (press release). https://juggernautexploration.com/wp-content/uploads/2018/11/Skyhigh-JUGR-Dec-4-2018.pdf

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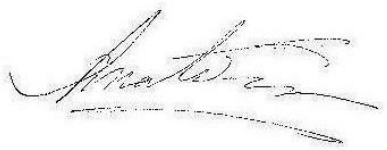
Woodsworth, G.J., Pearson, D.E., and A.J. Sinclair. 1977. Metal Distribution Patterns across the Eastern Flank of the Coast Plutonic Complex, South-Central British Columbia, in Economic Geology, V. 72, pp. 170-183.

8. Statement of Qualifications

I, Anastasia Ledwon, hereby declare that:

- I am a consulting geologist, residing at 4901 Slack Road, Smithers, BC V0J 2N2;
- I graduated from the University of Victoria in 1997 with a B.Sc. (Hons) (Distinction) in Earth and Ocean Sciences and have been involved in the mineral exploration and industry since 2005;
- I am a member in good standing of Engineers and Geoscientists of British Columbia, license # 151803 and have been since 2009;
- I am the author of this report based on information provided to me by the client, DSM Syndicate Holdings Ltd. of Vancouver, BC and did not personally collect any data herein;
- I have no direct or indirect interest in the properties or securities of DSM Syndicate Holdings Ltd.; and
- I consent to the use of this report by DSM Syndicate Holdings Ltd. provided that no portion is used out of contest in such a manner as to convey a meaning differing materially from that set out in the whole.



Anastasia Ledwon, B.Sc., P.Geo.
January 10, 2019

9. Appendices

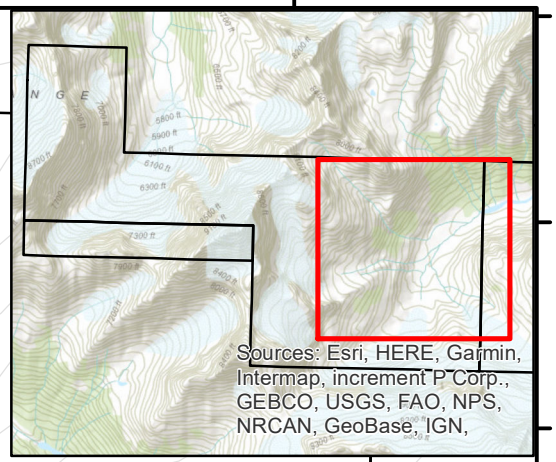
A. Field Notes

sample_ID	prospector	Date	project	zone	sample_type	datum	utm_zone	northing	easting	elevation_m	accuracy_m	length_inter	azimuth	lith1	lith2	grain_size	texture	description
W386008	J. Chornobay	11-Aug-18	DSM	New Strike	Grab	NAD83	10	5713772	379259	2322.170898	4.00	0						30cm wide Qtz vein with mica and 1% Cpy. Malachite staining
W386009	J. Chornobay	11-Aug-18	DSM	New Strike	Float	NAD83	10	5713780.874	379370.7487	2369.709473	4.00	0						Talus (not far from source). Strongly ox'd, punky quartz 30% Py
W386010	J. Chornobay	11-Aug-18	DSM	New Strike	Float	NAD83	10	5713719.851	379410.2135	2357.379639	4.00	0						Talus (not far from source). Strongly silicified grey volcanics with 10% Py
W386011	J. Chornobay	11-Aug-18	DSM	New Strike	Grab	NAD83	10	5713251	376106	2235	4.00	0						Talings from old pit (minfile). Punky qtz with 5% Py
W496806	E. Webster	11-Aug-18	DSM	New Strike	Grab	NAD83	10	5712270	381268	1715	3.00			Quartz Vein		fg	Vuggy	Goassnous quartz vein hosted in int intrusive rocl. Vein is upto 10cm wide but pinches and swells. Numeorus veins simialr to this one in size, orientation, mineralization. Other sub cm veins veins are oblique to these veins and don't appear to have any min assocaited with them. Almost stockwork in places.
W496807	E. Webster	11-Aug-18	DSM	New Strike	Grab	NAD83	10	5712362	381352	1741	3.00			Quartz Vein	Mudstone-dominant	fg	Vuggy	Goassnous quartz vein hosted in int intrusive rocl. Vein is upto 10cm wide but pinches and swells. Numeorus veins simialr to this one in size, orientation, mineralization. Other sub cm veins veins are oblique to these veins and don't appear to have any min assocaited with them. Almost stockwork in places.
W496808	E. Webster	11-Aug-18	DSM	New Strike	Grab	NAD83	10	5712469	381393	1749	3.00			Quartz Vein	Mudstone-dominant	fg	Vuggy	Vugg, milky quartz vein upto 45cm wide. Continues along stike for ~20m. Multiple similar veins in the area.
W496809	E. Webster	11-Aug-18	DSM	New Strike	Float	NAD83	10	5713250	379730	2249	3.00			Quartz Vein		fg	vuggy	vuggy, milky quartz vein. Flaot below steep cliff.Angular doesn't appear to have travelled far. Diss py plus darker gery sulphide that is unknown. Calcite crystals in vugs in vein.
W496810	E. Webster	11-Aug-18	DSM	New Strike	Grab	NAD83	10	5713482	376285	2198	0.00			Quartz Vein		fg	vuggy	Milky quartz vein with open space filling textures. Pyrite trace blebs. Vein blows out to 1m in places but typically 10cm wide. Strike length ~5-7m. Hosted in a chlorite schist.
W496811	E. Webster	11-Aug-18	DSM	New Strike	Grab	NAD83	10	5713519	376295	2215	0.00			Quartz Vein		fg	massive	Along stike from previous sample. Veins are much more abundant here and in various orientations. Area with veins from breif prospecting spans 30x30 m.
W496855	R. Purnell	11-Aug-18	DSM	New Strike	Grab	NAD83	10	5712564.79	378083.48	2248.964111	5.00							4cm wide qtz vein (320/85) with 7% Cubic Py and black sulfide that scratches red. Moderate ankerite and clay alteration.
W496856	R. Purnell	11-Aug-18	DSM	New Strike	Float	NAD83	10	5712480.06	378030	2314.672607	5.00							Qtz float from steep cliffs above. Strongly ox'd and is pink-red in fresh surface. 1cm veinlet of 15% Py sub-euhedral within qtz
W496857	R. Purnell	11-Aug-18	DSM	New Strike	Float	NAD83	10	5712469.47	378263.54	2284.106934	5.00							Moderately ox'd orange qtz float with 5% Py
W496901	N. Goeppel	11-Aug-18	DSM	New Strike	talus	Nad 83	10	5713206	376202	2116.7	3.00			Mafic Volcaniclastic Rock				local quartz talus of quartz veining with strongly disseminated pyrite with lesser sphalerite and chalcopyrite
W496902	N. Goeppel	11-Aug-18	DSM	New Strike	chip	Nad 83	10	5713357	376191	2126.7	14.00	0.5	360	Mafic Volcaniclastic Rock				0.5m wide quartz lens with disseminated globules of pyrite and lesser sphalerite in atered mafic tuff pervasively chloritized with little to remenant texture.
W496903	N. Goeppel	11-Aug-18	DSM	New Strike	Grab	Nad 83	10	5713234	376200	2139.8	7.00			Description				gently dipping to west, ankerite-quartz vien with minor pyrite and lesser arsenopyrite in fine grained clots up to 15cm wide in siltstone/shale.
W496904	N. Goeppel	11-Aug-18	DSM	New Strike	Chip	Nad 83	10	5713833	376627	2059.3	3.00	0.25	350	Felsic Intrusive Dyke				large exposure with strongly ankerite altered porphyritic quartz hornblende diorite with silicified and stockwork (-5-1m wide) that pinches into narrow shear/fault with coarse globules of galena with lesser chalcopyrite.
W496905	N. Goeppel	11-Aug-18	DSM	New Strike	Grab	Nad 83	10	5713833	376627	2059.3	3.00			Felsic Intrusive Dyke				large exposure with strongly ankerite altered porphyritic quartz hornblende diorite with silicified and stockwork (-5-1m wide) that pinches into narrow shear/fault with coarse globules of galena with lesser chalcopyrite.
W496906	N. Goeppel	11-Aug-18	DSM	New Strike	talus	Nad 83	10	5714201	376775	2000.4	5.00			Felsic Volcaniclastic Rock		fg		oxidized quartz talus with disseminations of fine grained 'needle-like' arsenopyrite, sphalerite, and pyrite.
W496907	N. Goeppel	11-Aug-18	DSM	New Strike	Grab	Nad 83	10	5714213	376719	2031.6	5.00			Description		mg		outcrop of orange akeritic alteration along shear and contact of propalitically altered mafic tuff/ volcanoclastic units. Multiple qtz-carb veins. Local malachite staing with pyrite and chalcopyrite.
W496962	R. Madley	11-Aug-18	DSM	New Strike	Grab	NAD83	10	5712006.799	381425.4192	1754.206909		0						Ox'd Qtz vein uo to 15cm thick and 200m long minimum.
W496963	R. Madley	11-Aug-18	DSM	New Strike	Float	NAD83	10	5711952.391	381492.0637	1771.033813		0						Float. Qtz with malachite and mica
W496964	R. Madley	11-Aug-18	DSM	New Strike	Float	NAD83	10	5711923.316	381498.3217	1774.860107		0						2m diam float. Ox'd Qtz vein with massive cubic Py
W496966	R. Madley	11-Aug-18	DSM	New Strike	Grab	NAD83	10	5712082.573	381349.1476	1738.175903		0						10m long and 60cm wide qtz vein. Ox'd Py
W496967	R. Madley	11-Aug-18	DSM	New Strike	Float	NAD83	10	5713563.117	376310.0138	2237.565186		0						Qts with py on scree slope

sample_ID	Ag_ppm	Al_per	As_ppm	B_ppm	Ba_ppm	Be_ppm	Bi_ppm	Ca_per	Cd_ppm	Co_ppm	Cr_ppm	Cu_ppm	Fe_per	Ga_ppm	Hg_ppm	K_per	La_ppm	Mg_per	Mn_ppm	Mo_ppm	Na_per	Ni_ppm	P_ppm	Pb_ppm	S_per	Sb_ppm	Sc_ppm	Sr_ppm	Th_ppm	Ti_per	Tl_ppm	U_ppm	V_ppm	W_ppm	Zn_ppm	Au_ppm
W386008	0.2	0.31	13	5	20	0.25	1	0.25	0.25	10	11	114	1.08	5	0.5	0.05	5	0.12	142	2	0.01	2	80	1	0.22	1	0.5	3	10	0.005	5	5	6	5	6	0.024
W386009	0.4	0.54	199	5	10	0.25	1	0.07	0.25	22	8	253	4.38	5	0.5	0.05	5	0.18	206	1	0.03	3	290	2	3.08	1	0.5	4	10	0.005	5	5	2	5	19	0.021
W386010	0.4	1.97	3	5	20	0.25	1	0.46	0.25	14	21	154	6.54	10	0.5	0.11	5	0.99	1190	2	0.03	10	170	1	1.79	1	4	15	10	0.02	5	5	41	5	72	0.0025
W386011	1.5	0.31	14	5	5	0.25	1	1.79	3.7	3	7	131	2.65	5	0.5	0.005	5	0.22	372	2	0.01	1	20	1	0.87	1	2	31	10	0.005	5	5	9	5	100	4.77
W496806	0.4	0.25	394	5	40	0.25	1	0.1	0.25	8	9	118	1.39	5	0.5	0.13	5	0.05	151	3	0.03	2	180	7	0.23	5	0.5	5	10	0.005	5	5	1	5	15	0.047
W496807	4.2	0.35	620	5	20	0.25	130	0.08	0.25	10	13	197	2.16	5	0.5	0.07	5	0.14	148	1	0.01	3	120	25	1.04	2	0.5	4	10	0.005	5	5	9	5	12	6.64
W496808	0.2	0.09	10	5	10	0.25	2	0.02	0.25	1	13	15	0.54	5	0.5	0.05	5	0.01	61	3	0.02	1	60	3	0.005	1	0.5	2	10	0.005	5	5	1	5	2	0.173
W496809	1.9	0.23	369	5	5	0.25	1	1.51	0.25	1	9	58	1.3	5	0.5	0.005	5	0.18	341	2	0.01	0.5	20	7	0.35	2	1	14	10	0.005	5	5	7	5	17	2.84
W496810	0.2	0.36	2	5	10	0.25	1	1.26	0.25	2	9	22	1.1	5	0.5	0.03	5	0.18	325	5	0.01	1	100	2	0.04	1	1	27	10	0.005	5	5	9	5	12	0.005
W496811	0.9	0.21	3	5	10	0.25	1	0.1	0.25	3	11	785	0.87	5	0.5	0.02	5	0.11	104	12	0.01	1	50	5	0.04	2	1	3	10	0.005	5	5	6	5	8	0.029
W496855	2.2	0.17	11	5	40	0.25	1	1.15	1.4	12	5	21	2.52	5	0.5	0.09	5	0.03	296	1	0.01	12	160	70	1.03	12	1	6	10	0.005	5	5	5	5	360	0.01
W496856	2.1	0.03	15	5	5	0.25	1	0.01	0.25	25	8	1635	2.92	5	0.5	0.01	5	0.01	64	1	0.01	3	10	2	2.12	1	0.5	0.5	10	0.005	5	5	3	5	16	0.177
W496857	0.2	0.03	1	5	5	0.25	1	0.02	0.25	4	7	79	1.04	5	0.5	0.01	5	0.01	54	1	0.01	1	20	2	0.42	2	0.5	1	10	0.005	5	5	1	5	4	0.0025
W496901	2.3	1.41	222	5	5	0.25	3	0.02	285	38	7	779	17.1	5	0.5	0.005	5	0.62	235	2	0.01	6	40	3	10	4	1	0.5	10	0.005	5	5	35	5	4310	5.51
W496902	2.8	0.45	141	5	5	0.25	4	0.02	339	48	5	1765	16.1	5	0.5	0.005	5	0.15	146	2	0.01	6	10	1	10	4	1	0.5	10	0.005	5	5	14	5	7190	4.29
W496903	0.1	0.65	247	5	5	0.25	1	9.2	6.7	3	5	78	3.78	5	0.5	0.01	5	0.63	1095	1	0.02	0.5	50	3	0.94	1	5	182	10	0.005	5	5	18	5	276	0.086
W496904	196	0.22	171	10	440	0.25	1	3.16	63.9	3	5	3090	1.22	5	22	0.16	5	0.03	483	1	0.01	2	210	17950	0.68	919	2	31	10	0.005	5	5	3	5	7540	0.095
W496905	196	0.29	178	10	70	0.25	2	3.05	393	2	5	3030	1.39	5	96	0.19	5	0.06	450	1	0.01	2	180	29900	3.07	1270	1	32	10	0.005	5	5	3	5	54100	0.103
W496906	0.9	0.64	3280	5	10	0.25	1	0.95	16.6	9	8	83	2.44	5	1	0.03	5	0.31	221	2	0.02	2	280	55	0.57	4	2	10	10	0.005	5	5	20	5	1210	1.435
W496907	32.9	0.13	107	5	20	0.25	1	4.09	3.5	6	6	1230	2.41	5	3	0.06	5	0.05	701	2	0.03	9	150	24	0.1	405	5	15	10	0.005	5	5	11	5	275	0.023
W496962	0.1	0.1	6	5	140	0.25	1	5.8	0.25	4	7	2	3.32	5	0.5	0.06	5	1.6	1370	1	0.01	14	170	4	0.005	1	3	270	10	0.005	5	5	9	5	42	0.0025
W496963	0.1	0.1	2	5	30	0.25	1	1.77	0.25	1	10	63	1.01	5	0.5	0.02	5	0.34	412	1	0.01	3	50	2	0.005	1	1	55	10	0.005	5	5	4	5	11	0.048
W496964	4.5	0.21	134	5	10	0.25	22	0.33	0.25	38	8	347	3.82	5	1	0.01	5	0.12	150	1	0.02	2	30	1	2.51	1	1	10	10	0.005	5	5	7	5	7	15.2
W496966	0.3	0.78	2	5	50	0.25	1	0.51	0.25	50	14	429	3.57	5	0.5	0.1	5	0.2	177	1	0.06	8	190	3	1.72	2	1	28	10	0.04	5	5	35	5	12	0.052
W496967	0.4	0.12	4590	5	5	0.25	1	0.87	0.5	3	9	18	1.21	5	0.5	0.01	5	0.07	112	2	0.01	0.5	30	1	0.28	1	0.5	7	10	0.005	5	5	3	5	11	2.1

B. Geochemical Assay Maps

NewStrike Eastern Sample Locations



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N W E S

W386008 W386009 W386010

W496809

W496808 W496807 W496806 W496966 W496962 W496963 W496964

Legend

- Newstrike Samples
- Contours

Coordinate System:
NAD 83 9N
Created by: Tyler Punk
Date: Jan, 7th, 2019

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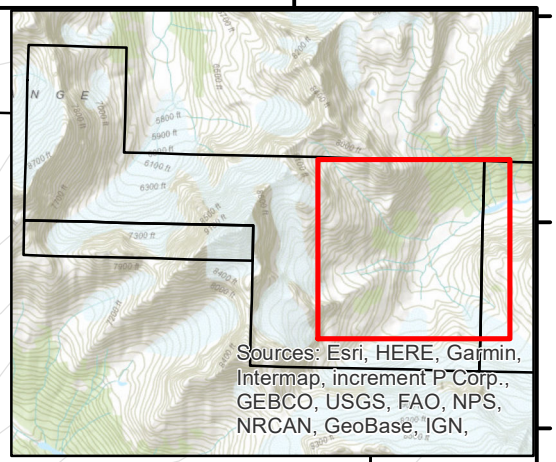
0 0.125 0.25 0.5 Kilometers

NewStrike Eastern Cu ppm Values



N
W E
S

114
253
154
58
15
197
118
429
2
63
347

379000 379500 380000 380500 381000 381500

5713900 5713600 5713300 5713000 5712700 5712400 5712100

Legend

- Newstrike Cu ppm
- Contours

Coordinate System:
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Date: Jan, 7th, 2019

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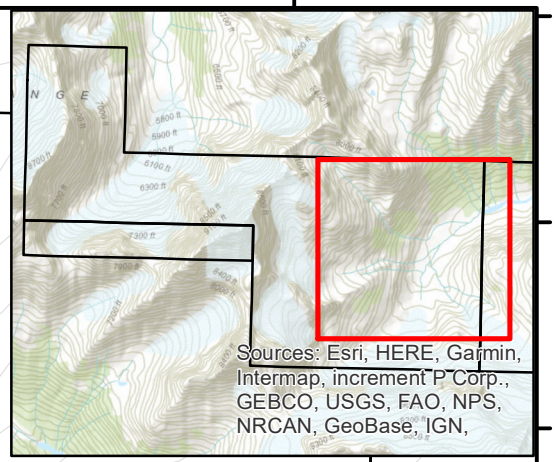
25

NewStrike Eastern Au ppm Values



N
W E
S

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0.021
0.0025
2.84
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6.64
0.047
0.052
0.0025
0.048
15.2

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5713900 5713600 5713300 5713000 5712700 5712400 5712100

Legend

- Newstrike Au ppm
- Contours

Coordinate System:
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Date: Jan, 7th, 2019

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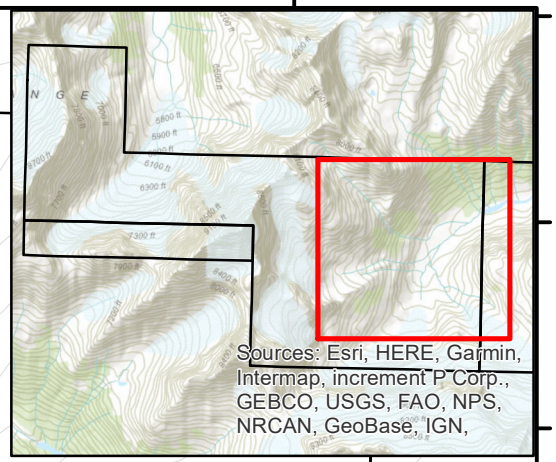
NewStrike Eastern Pb ppm Values



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5713900 5713600 5713300 5713000 5712700 5712400 5712100

N W E S

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Legend

- Newstrike Pb ppm
- Contours

Coordinate System:
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Created by: Tyler Punk
Date: Jan, 7th, 2019

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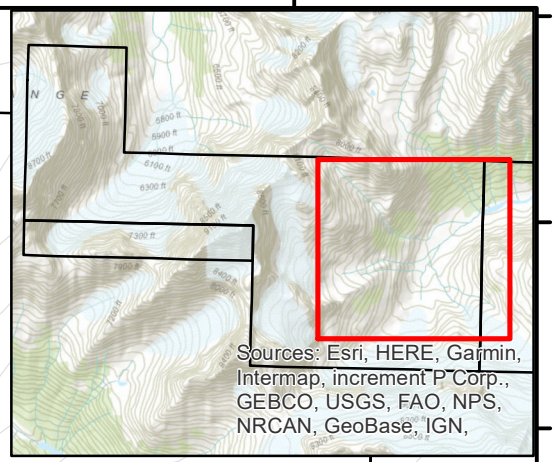
27

NewStrike Eastern Ag ppm Values



N
W E
S

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0.4
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1.9
0.2
4.2
0.4
0.3
0.1
0.1
4.5

379000 379500 380000 380500 381000 381500

5713900 5713600 5713300 5713000 5712700 5712400 5712100

Legend

- Newstrike Ag ppm
- Contours

Coordinate System:
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Created by: Tyler Punk
Date: Jan, 7th, 2019

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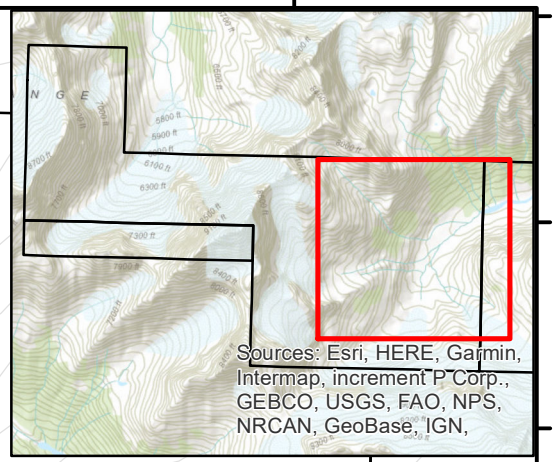
NewStrike Eastern Zn ppm Values



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5713900 5713600 5713300 5713000 5712700 5712400 5712100

N W E S

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Legend

- Newstrike Zn ppm
- Contours

Coordinate System:
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Created by: Tyler Punk
Date: Jan, 7th, 2019

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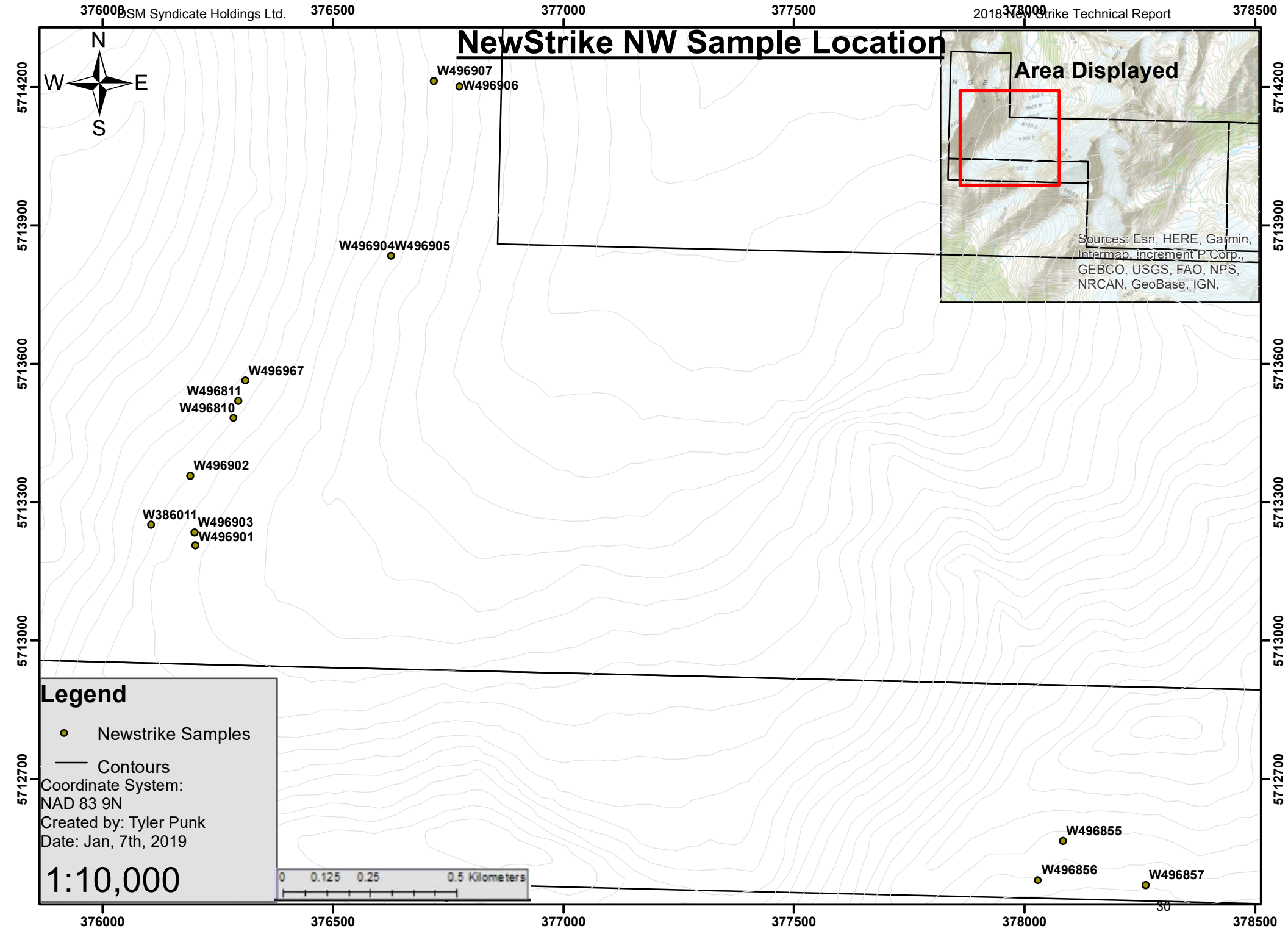
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5712700
W496907
W496906
W496904W496905
W496967
W496811
W496810
W496902
W386011
W496903
W496901
W496855
W496856
W496857
Area Displayed
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN,
Legend
Newstrike Samples
Contours
Coordinate System:
NAD 83 9N
Created by: Tyler Punk
Date: Jan, 7th, 2019
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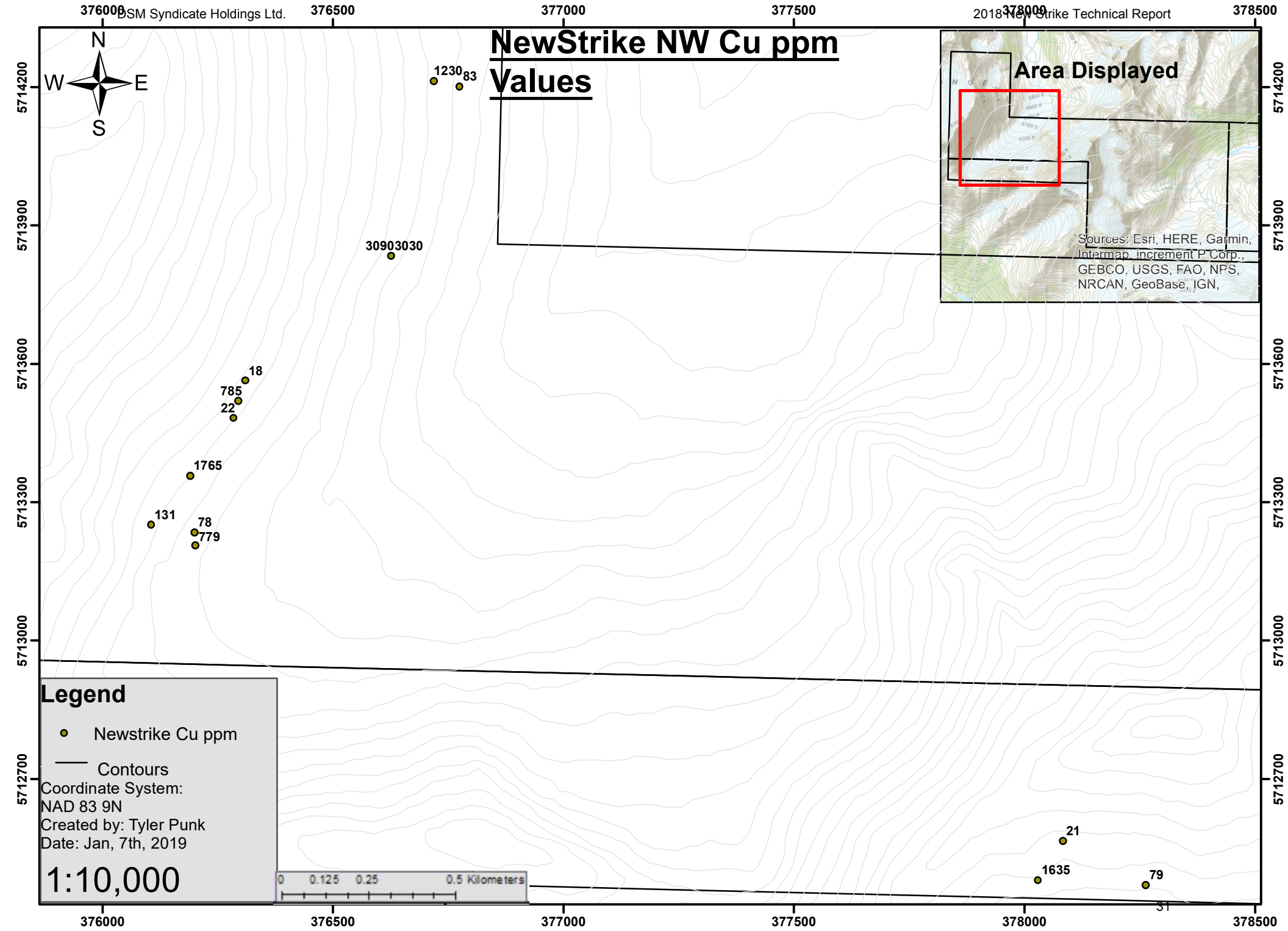
NewStrike NW Cu ppm Values
N
W
E
S
Area Displayed
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN,
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30903030
18
785
22
1765
131
78
779
21
1635
79
376000
376500
377000
377500
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378500
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5713900
5713600
5713300
5713000
5712700
Legend
Newstrike Cu ppm
Contours
Coordinate System:
NAD 83 9N
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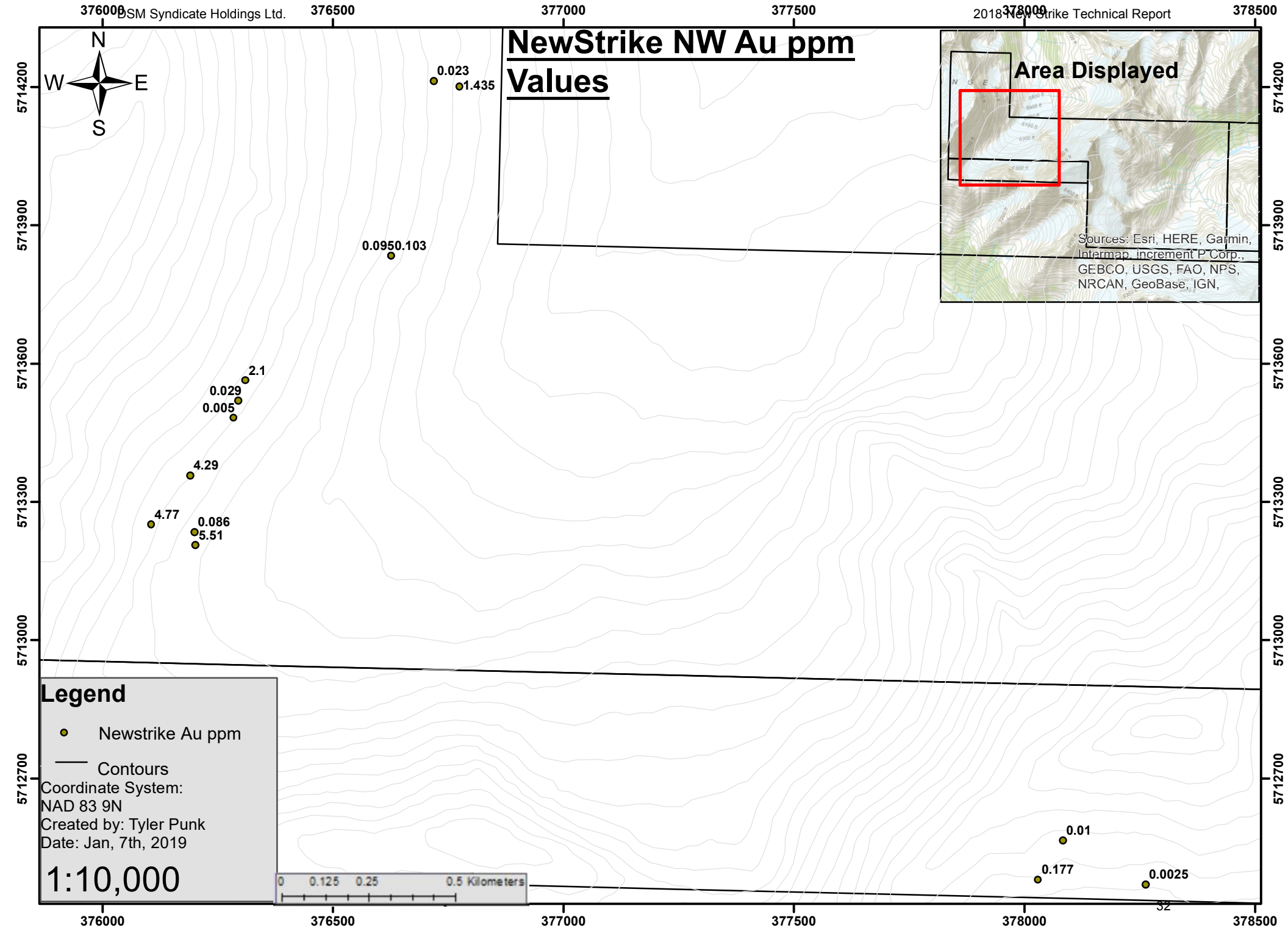
NewStrike NW Au ppm Values
N
W
E
S
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0.095
0.103
2.1
0.029
0.005
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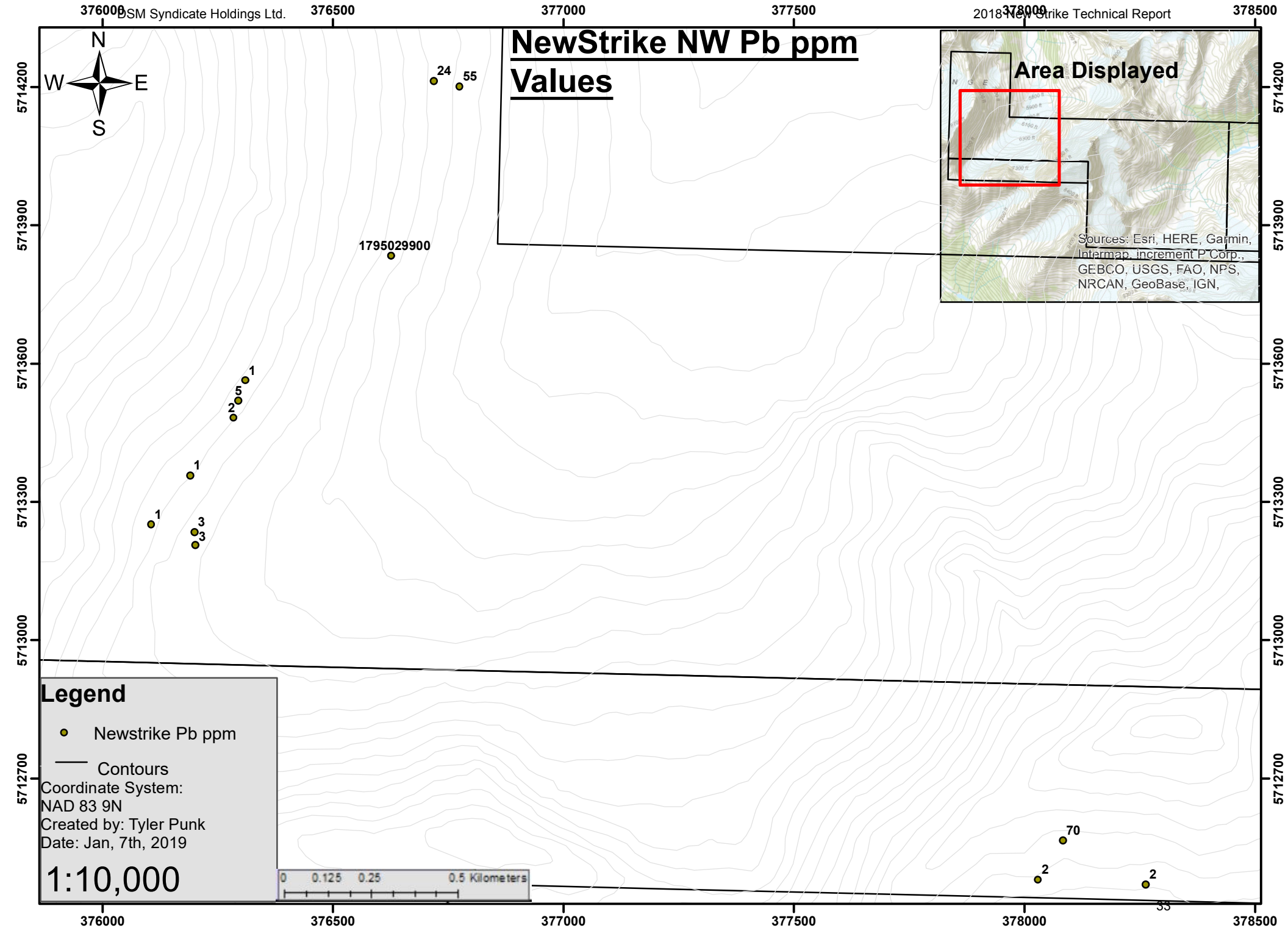
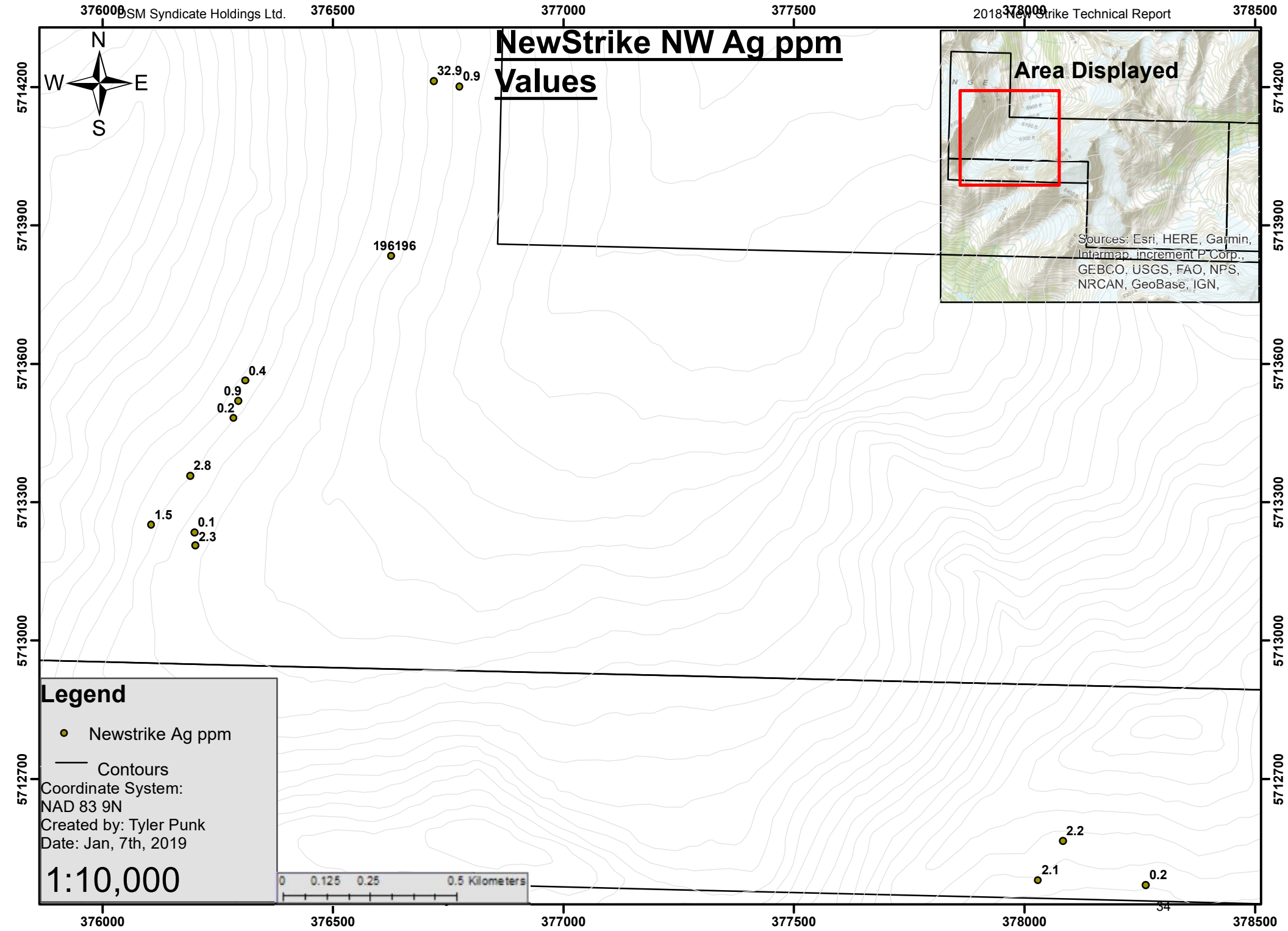
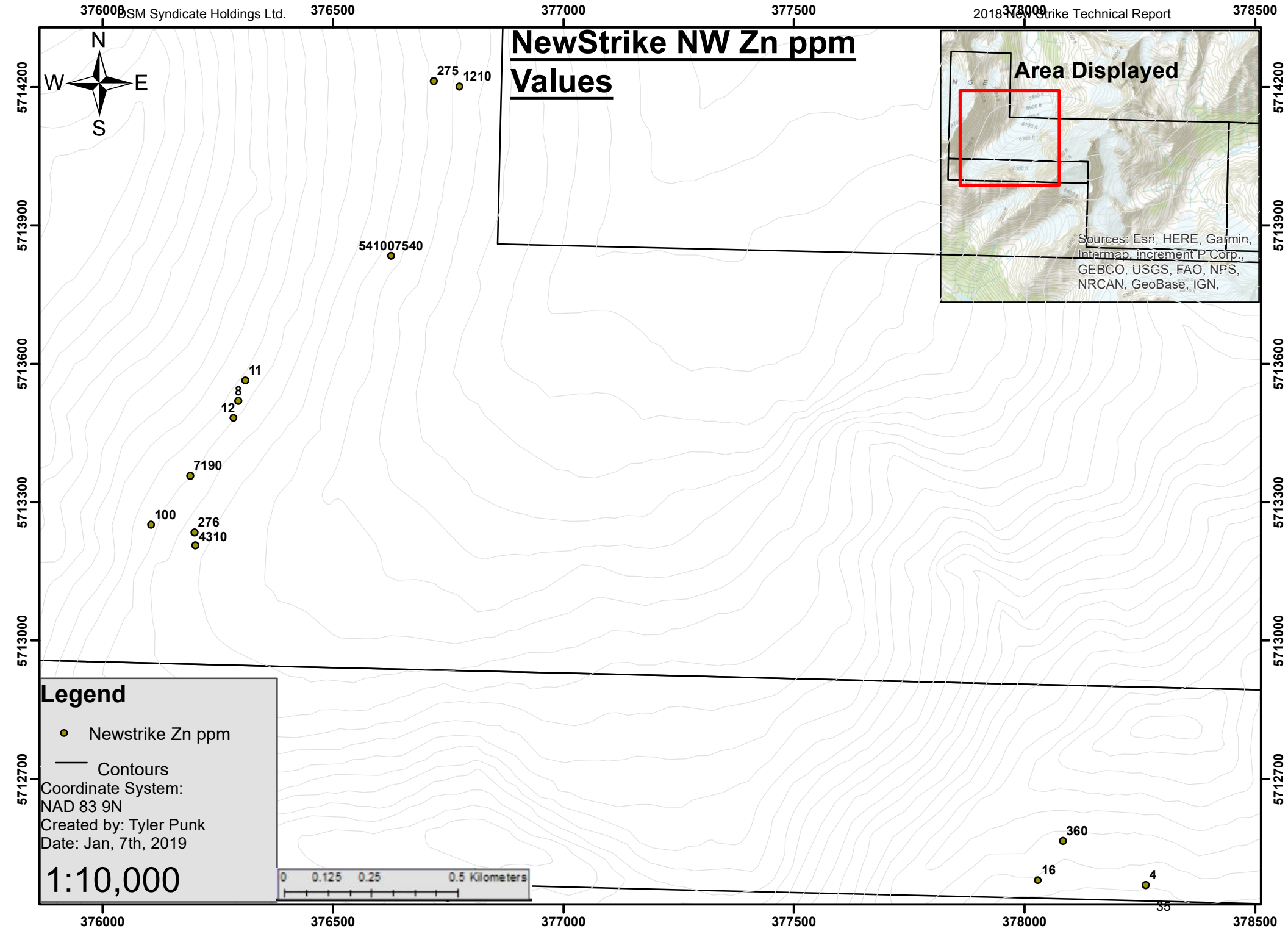
4.77
0.086
5.51
0.01
0.177
0.0025
Area Displayed
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN,
Legend
Newstrike Au ppm
Contours
Coordinate System:
NAD 83 9N
Created by: Tyler Punk
Date: Jan, 7th, 2019
1:10,000
0 0.125 0.25 0.5 Kilometers
376000
376500
377000
377500
378000
378500
5714200
5713900
5713600
5713300
5713000
5712700


NewStrike NW Pb ppm Values
N
W
E
S
Area Displayed
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN,
376000
376500
377000
377500
378000
378500
5714200
5713900
5713600
5713300
5713000
5712700
24
55
1795029900
1
5
2
1
1
3
3
70
2
2
33
Legend
Newstrike Pb ppm
Contours
Coordinate System:
NAD 83 9N
Created by: Tyler Punk
Date: Jan, 7th, 2019
1:10,000
0 0.125 0.25 0.5 Kilometers


NewStrike NW Ag ppm Values
N
W
E
S
Area Displayed
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN,
32.9
0.9
196196
0.4
0.9
0.2
2.8
1.5
0.1
2.3
2.2
2.1
0.2
376000
376500
377000
377500
378000
378500
5714200
5713900
5713600
5713300
5713000
5712700
Legend
Newstrike Ag ppm
Contours
Coordinate System:
NAD 83 9N
Created by: Tyler Punk
Date: Jan, 7th, 2019
1:10,000
0 0.125 0.25 0.5 Kilometers


NewStrike NW Zn ppm Values
N
W
E
S
Area Displayed
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN,
275
1210
541007540
11
8
12
7190
100
276
4310
360
16
4
35
376000
376500
377000
377500
378000
378500
5714200
5713900
5713600
5713300
5713000
5712700
Legend
Newstrike Zn ppm
Contours
Coordinate System:
NAD 83 9N
Created by: Tyler Punk
Date: Jan, 7th, 2019
1:10,000
0 0.125 0.25 0.5 Kilometers

C. Assay Certificates

ALS Canada Ltd.
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To: **DSM SYNDICATE**
0760180 BC LTD
303-10090 152 STREET
SURREY BC V3R 8X8

CERTIFICATE VA18198767

This report is for 54 Rock samples submitted to our lab in Vancouver, BC, Canada on 13-AUG-2018.

The following have access to data associated with this certificate:

BILL CHORNOBAY	STEFAN KRUSE	EWAN WEBESTER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
Pb-OG46	Ore Grade Pb - Aqua Regia	
Zn-OG46	Ore Grade Zn - Aqua Regia	
Ag-GRA21	Ag 30g FA-GRAV finish	WST-SIM
Au-AA24	Au 50g FA AA finish	AAS
Au-GRA22	Au 50 g FA-GRAV finish	WST-SIM
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Ag-OG46	Ore Grade Ag - Aqua Regia	
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES

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

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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SURREY BC V3R 8X8

CERTIFICATE OF ANALYSIS VA18198767

Sample Description	Method	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOD	0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
W496851		4.24	>100	0.74	84	<10	60	<0.5	17	0.17	28.0	10	104	635	3.57	<10
W496852		2.46	>100	0.19	40	<10	10	<0.5	11	0.05	42.5	12	14	3590	6.14	<10
W496853		3.54	>100	0.19	92	<10	10	<0.5	<2	0.01	1.2	2	18	182	1.63	<10
W496854		0.92	14.9	0.16	162	<10	10	<0.5	<2	0.01	7.0	2	7	110	1.44	<10
W496855		1.28	2.2	0.17	11	<10	40	<0.5	<2	1.15	1.4	12	5	21	2.52	<10
W496856		1.34	2.1	0.03	15	<10	<10	<0.5	<2	0.01	<0.5	25	8	1635	2.92	<10
W496857		0.92	0.2	0.03	<2	<10	<10	<0.5	<2	0.02	<0.5	4	7	79	1.04	<10
Y547452		3.68	<0.2	1.26	2	<10	160	<0.5	<2	0.65	<0.5	9	31	15	2.58	<10
W496801		1.96	>100	0.69	83	<10	20	<0.5	<2	0.14	8.5	6	14	729	3.05	<10
W496802		1.06	3.6	1.62	<2	<10	60	<0.5	<2	1.22	<0.5	15	17	193	3.34	10
W496803		4.14	>100	0.15	5	<10	10	<0.5	25	0.03	117.0	1	10	276	3.07	<10
W496804		2.86	3.5	0.40	2	<10	20	<0.5	<2	0.23	3.8	1	7	43	0.94	<10
W496805		2.26	>100	1.26	134	<10	30	<0.5	<2	0.67	14.1	16	64	515	3.78	<10
W496806		2.34	0.4	0.25	394	<10	40	<0.5	<2	0.10	<0.5	8	9	118	1.39	<10
W496807		2.90	4.2	0.35	620	<10	20	<0.5	130	0.08	<0.5	10	13	197	2.16	<10
W496808		4.56	0.2	0.09	10	<10	10	<0.5	2	0.02	<0.5	1	13	15	0.54	<10
W496809		2.44	1.9	0.23	369	<10	<10	<0.5	<2	1.51	<0.5	1	9	58	1.30	<10
W496810		2.46	0.2	0.36	2	<10	10	<0.5	<2	1.26	<0.5	2	9	22	1.10	<10
W496811		3.80	0.9	0.21	3	<10	10	<0.5	<2	0.10	<0.5	3	11	785	0.87	<10
W386001		1.72	<0.2	1.40	<2	<10	440	<0.5	<2	0.82	<0.5	10	16	32	3.33	10
W386002		3.88	0.4	0.16	<2	<10	10	<0.5	<2	0.01	<0.5	1	8	94	0.89	<10
W386003		3.56	<0.2	1.57	<2	<10	250	<0.5	<2	0.87	<0.5	11	12	43	3.13	10
W386004		3.40	3.9	0.41	10	<10	130	<0.5	2	0.06	<0.5	2	11	16	3.97	<10
W386005		3.92	4.1	0.13	54	<10	20	<0.5	<2	0.02	<0.5	3	11	40	1.33	<10
W386006		2.74	7.8	0.10	48	<10	20	<0.5	4	0.01	<0.5	1	8	28	1.18	<10
W386007		3.32	4.1	1.01	9	<10	160	<0.5	2	0.33	0.8	8	12	49	3.37	<10
W386008		1.84	0.2	0.31	13	<10	20	<0.5	<2	0.25	<0.5	10	11	114	1.08	<10
W386009		2.18	0.4	0.54	199	<10	10	<0.5	<2	0.07	<0.5	22	8	253	4.38	<10
W386010		1.64	0.4	1.97	3	<10	20	<0.5	<2	0.46	<0.5	14	21	154	6.54	10
W386011		4.48	1.5	0.31	14	<10	<10	<0.5	<2	1.79	3.7	3	7	131	2.65	<10
W496951		2.48	<0.2	2.42	<2	<10	320	<0.5	2	0.55	<0.5	17	23	88	5.31	10
W496952		1.16	1.0	1.15	<2	<10	30	<0.5	<2	0.43	<0.5	12	11	1030	4.74	<10
W496953		0.90	0.2	0.22	<2	<10	20	<0.5	<2	0.05	<0.5	1	5	24	0.52	<10
W496954		0.70	1.3	1.30	<2	<10	100	<0.5	2	0.44	<0.5	7	6	592	3.23	<10
W496955		2.38	72.7	0.29	420	<10	20	<0.5	<2	0.05	3.6	9	9	110	3.68	<10
W496956		3.40	8.1	0.25	269	<10	10	<0.5	<2	0.02	<0.5	17	9	27	2.98	<10
W496957		2.48	2.2	0.52	69	<10	20	<0.5	2	0.10	<0.5	16	25	37	2.41	<10
W496958		1.84	33.5	0.25	84	<10	30	<0.5	<2	0.01	34.3	1	8	313	2.18	<10
W496959		1.90	9.0	1.30	<2	<10	10	<0.5	9	0.34	6.8	17	6	50	20.4	<10
W496960		2.80	21.1	0.56	109	<10	40	<0.5	7	0.19	1.0	10	18	221	2.74	<10

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

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To: **DSM SYNDICATE**
0760180 BC LTD
303-10090 152 STREET
SURREY BC V3R 8X8

CERTIFICATE OF ANALYSIS VA18198767

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Hg	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	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
W496851		<1	0.19	<10	0.68	372	14	0.01	53	410	2430	1.89	2	2	7	<20
W496852		<1	0.12	<10	0.08	82	5	0.01	13	260	1300	6.63	<2	1	1	<20
W496853		<1	0.14	<10	0.05	51	10	0.01	10	210	1210	0.50	2	<1	2	<20
W496854		<1	0.12	<10	0.01	64	37	0.01	3	140	221	0.65	<2	<1	<1	<20
W496855		<1	0.09	<10	0.03	296	1	0.01	12	160	70	1.03	12	1	6	<20
W496856		<1	0.01	<10	0.01	64	1	0.01	3	10	2	2.12	<2	<1	<1	<20
W496857		<1	0.01	<10	0.01	54	1	0.01	1	20	2	0.42	2	<1	1	<20
Y547452		<1	0.71	10	0.90	514	<1	0.09	11	770	2	0.04	<2	4	24	<20
W496801		<1	0.22	<10	0.55	290	5	0.01	9	480	625	1.84	3	1	4	<20
W496802		<1	0.18	<10	1.29	447	<1	0.11	10	1850	28	0.56	<2	3	77	<20
W496803		<1	0.04	<10	0.11	83	130	0.01	3	150	>10000	3.33	14	<1	2	<20
W496804		<1	0.12	<10	0.23	223	5	0.02	2	100	189	0.18	<2	<1	6	<20
W496805		<1	0.24	<10	1.14	602	3	0.04	35	670	1370	2.80	2	4	28	<20
W496806		<1	0.13	<10	0.05	151	3	0.03	2	180	7	0.23	5	<1	5	<20
W496807		<1	0.07	<10	0.14	148	1	0.01	3	120	25	1.04	2	<1	4	<20
W496808		<1	0.05	<10	0.01	61	3	0.02	1	60	3	<0.01	<2	<1	2	<20
W496809		<1	<0.01	<10	0.18	341	2	0.01	<1	20	7	0.35	2	1	14	<20
W496810		<1	0.03	<10	0.18	325	5	0.01	1	100	2	0.04	<2	1	27	<20
W496811		<1	0.02	<10	0.11	104	12	0.01	1	50	5	0.04	2	1	3	<20
W386001		<1	0.55	<10	0.84	336	2	0.20	8	1400	<2	0.25	<2	3	67	<20
W386002		<1	0.09	<10	0.02	38	19	0.05	4	20	3	0.54	<2	<1	2	<20
W386003		<1	0.47	<10	1.22	511	26	0.09	8	1410	2	0.67	<2	2	76	<20
W386004		<1	0.22	10	0.25	97	8	0.05	3	510	23	1.14	<2	2	87	<20
W386005		<1	0.10	<10	0.01	125	3	0.01	4	180	31	0.64	2	<1	4	<20
W386006		<1	0.09	<10	0.01	39	2	0.01	6	220	78	0.36	3	<1	9	<20
W386007		<1	0.40	<10	0.77	268	1	0.08	6	900	52	1.46	<2	3	24	<20
W386008		<1	0.05	<10	0.12	142	2	0.01	2	80	<2	0.22	<2	<1	3	<20
W386009		<1	0.05	<10	0.18	206	1	0.03	3	290	2	3.08	<2	<1	4	<20
W386010		<1	0.11	<10	0.99	1190	2	0.03	10	170	<2	1.79	<2	4	15	<20
W386011		<1	<0.01	<10	0.22	372	2	0.01	1	20	<2	0.87	<2	2	31	<20
W496951		<1	0.93	10	1.67	660	5	0.06	11	2170	2	0.70	<2	4	14	<20
W496952		<1	0.50	<10	0.72	341	348	0.09	5	860	<2	3.17	<2	2	46	<20
W496953		<1	0.07	<10	0.06	65	66	0.06	2	30	3	0.12	<2	<1	17	<20
W496954		<1	0.39	<10	0.80	306	884	0.10	4	1000	2	1.77	<2	2	119	<20
W496955		<1	0.23	<10	0.02	36	3	0.01	14	410	115	3.56	3	1	2	<20
W496956		<1	0.17	<10	0.01	38	49	0.01	9	200	25	2.69	2	<1	1	<20
W496957		1	0.23	<10	0.27	122	2	0.01	16	450	28	1.82	<2	2	4	<20
W496958		1	0.20	<10	0.02	40	21	0.01	2	200	1355	1.81	<2	<1	1	<20
W496959		<1	0.15	<10	1.45	702	2	0.01	42	70	552	>10.0	4	3	21	<20
W496960		1	0.17	<10	0.23	113	18	0.03	19	430	129	2.09	2	2	7	<20

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

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CERTIFICATE OF ANALYSIS VA18198767

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-OG46	Pb-OG46	Zn-OG46	Ag-GRA21	Au-AA24	Au-GRA22
	Analyte	Ti	Tl	U	V	W	Zn	Ag	Pb	Zn	Ag	Au	Au
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm
	LOD	0.01	10	10	1	10	2	1	0.001	0.001	5	0.005	0.05
W496851		0.02	<10	<10	38	40	2340	174				1.380	
W496852		<0.01	<10	<10	10	160	2490	393				2.36	
W496853		<0.01	<10	<10	8	40	140	214				1.010	
W496854		<0.01	<10	<10	3	20	453					2.22	
W496855		<0.01	<10	<10	5	<10	360					0.010	
W496856		<0.01	<10	<10	3	<10	16					0.177	
W496857		<0.01	<10	<10	1	<10	4					<0.005	
Y547452		0.20	<10	<10	51	<10	50					<0.005	
W496801		<0.01	<10	<10	18	<10	291	204				1.785	
W496802		0.19	<10	<10	78	<10	90					0.041	
W496803		0.01	<10	<10	6	30	2930	>1500	3.40		2050	>10.0	16.10
W496804		0.01	<10	<10	9	460	612					0.027	
W496805		0.06	<10	<10	53	<10	917	939				2.25	
W496806		<0.01	<10	<10	1	<10	15					0.047	
W496807		<0.01	<10	<10	9	<10	12					6.64	
W496808		<0.01	<10	<10	1	<10	2					0.173	
W496809		<0.01	<10	<10	7	<10	17					2.84	
W496810		<0.01	<10	<10	9	<10	12					0.005	
W496811		<0.01	<10	<10	6	<10	8					0.029	
W386001		0.19	<10	<10	91	<10	61					<0.005	
W386002		<0.01	<10	<10	3	<10	2					<0.005	
W386003		0.18	<10	<10	56	<10	81					<0.005	
W386004		0.11	<10	<10	32	<10	28					0.073	
W386005		<0.01	<10	<10	5	60	26					0.071	
W386006		<0.01	<10	<10	2	30	23					0.135	
W386007		0.12	<10	<10	67	<10	123					0.033	
W386008		<0.01	<10	<10	6	<10	6					0.024	
W386009		<0.01	<10	<10	2	<10	19					0.021	
W386010		0.02	<10	<10	41	<10	72					<0.005	
W386011		<0.01	<10	<10	9	<10	100					4.77	
W496951		0.23	<10	<10	106	<10	110					<0.005	
W496952		0.13	<10	<10	50	<10	61					0.017	
W496953		0.01	<10	<10	4	40	6					<0.005	
W496954		0.09	<10	<10	36	<10	124					0.008	
W496955		<0.01	<10	<10	7	50	259					>10.0	17.30
W496956		<0.01	<10	<10	5	10	24					1.035	
W496957		0.01	<10	<10	18	30	35					0.210	
W496958		<0.01	<10	<10	5	<10	2070					0.595	
W496959		0.07	<10	<10	78	1010	802					0.127	
W496960		0.02	<10	<10	25	320	85					0.252	

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

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0760180 BC LTD
303-10090 152 STREET
SURREY BC V3R 8X8

CERTIFICATE OF ANALYSIS VA18198767

Sample Description	Method	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOD	0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
W496961		1.90	27.5	0.38	303	<10	30	<0.5	<2	0.11	<0.5	2	6	14	2.47	<10
W496962		1.46	<0.2	0.10	6	<10	140	<0.5	<2	5.80	<0.5	4	7	2	3.32	<10
W496963		3.06	<0.2	0.10	2	<10	30	<0.5	<2	1.77	<0.5	1	10	63	1.01	<10
W496964		2.08	4.5	0.21	134	<10	10	<0.5	22	0.33	<0.5	38	8	347	3.82	<10
W496965		0.74	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	1	0.06	<10
W496966		2.08	0.3	0.78	2	<10	50	<0.5	<2	0.51	<0.5	50	14	429	3.57	<10
W496967		2.90	0.4	0.12	4590	<10	<10	<0.5	<2	0.87	0.5	3	9	18	1.21	<10
W496901		1.18	2.3	1.41	222	<10	<10	<0.5	3	0.02	285	38	7	779	17.10	<10
W496902		2.36	2.8	0.45	141	<10	<10	<0.5	4	0.02	339	48	5	1765	16.10	<10
W496903		1.80	<0.2	0.65	247	<10	<10	<0.5	<2	9.2	6.7	3	5	78	3.78	<10
W496904		2.14	>100	0.22	171	10	440	<0.5	<2	3.16	63.9	3	5	3090	1.22	<10
W496905		2.32	>100	0.29	178	10	70	<0.5	2	3.05	393	2	5	3030	1.39	<10
W496906		2.88	0.9	0.64	3280	<10	10	<0.5	<2	0.95	16.6	9	8	83	2.44	<10
W496907		1.38	32.9	0.13	107	<10	20	<0.5	<2	4.09	3.5	6	6	1230	2.41	<10

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To: **DSM SYNDICATE**
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CERTIFICATE OF ANALYSIS VA18198767

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Hg	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	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
W496961		<1	0.27	<10	0.10	77	2	0.01	3	730	89	1.13	2	1	8	<20
W496962		<1	0.06	<10	1.60	1370	1	0.01	14	170	4	<0.01	<2	3	270	<20
W496963		<1	0.02	<10	0.34	412	1	0.01	3	50	2	<0.01	<2	1	55	<20
W496964		1	0.01	<10	0.12	150	1	0.02	2	30	<2	2.51	<2	1	10	<20
W496965		<1	<0.01	<10	0.60	90	<1	0.01	<1	70	<2	<0.01	<2	<1	83	<20
W496966		<1	0.10	<10	0.20	177	1	0.06	8	190	3	1.72	2	1	28	<20
W496967		<1	0.01	<10	0.07	112	2	0.01	<1	30	<2	0.28	<2	<1	7	<20
W496901		<1	<0.01	<10	0.62	235	2	0.01	6	40	3	>10.0	4	1	<1	<20
W496902		<1	<0.01	<10	0.15	146	2	0.01	6	10	<2	>10.0	4	1	<1	<20
W496903		<1	0.01	<10	0.63	1095	1	0.02	<1	50	3	0.94	<2	5	182	<20
W496904		22	0.16	<10	0.03	483	1	0.01	2	210	>10000	0.68	919	2	31	<20
W496905		96	0.19	<10	0.06	450	1	0.01	2	180	>10000	3.07	1270	1	32	<20
W496906		1	0.03	<10	0.31	221	2	0.02	2	280	55	0.57	4	2	10	<20
W496907		3	0.06	<10	0.05	701	2	0.03	9	150	24	0.10	405	5	15	<20

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CERTIFICATE OF ANALYSIS VA18198767

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-OG46	Pb-OG46	Zn-OG46	Ag-GRA21	Au-AA24	Au-GRA22
	Analyte	Ti	Tl	U	V	W	Zn	Ag	Pb	Zn	Ag	Au	Au
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	ppm
	LOD	0.01	10	10	1	10	2	1	0.001	0.001	5	0.005	0.05
W496961		0.08	<10	<10	17	20	28					0.858	
W496962		<0.01	<10	<10	9	<10	42					<0.005	
W496963		<0.01	<10	<10	4	<10	11					0.048	
W496964		<0.01	<10	<10	7	<10	7					>10.0	15.20
W496965		<0.01	<10	<10	<1	<10	<2					0.042	
W496966		0.04	<10	<10	35	<10	12					0.052	
W496967		<0.01	<10	<10	3	<10	11					2.10	
W496901		<0.01	<10	<10	35	<10	4310					5.51	
W496902		<0.01	<10	<10	14	<10	7190					4.29	
W496903		<0.01	<10	<10	18	<10	276					0.086	
W496904		<0.01	<10	<10	3	<10	7540	196	1.795			0.095	
W496905		<0.01	<10	<10	3	<10	>10000	196	2.99	5.41		0.103	
W496906		<0.01	<10	<10	20	<10	1210					1.435	
W496907		<0.01	<10	<10	11	<10	275					0.023	

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To: **DSM SYNDICATE**
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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 9-SEP-2018
Account: SYNDSM

CERTIFICATE OF ANALYSIS VA18198767

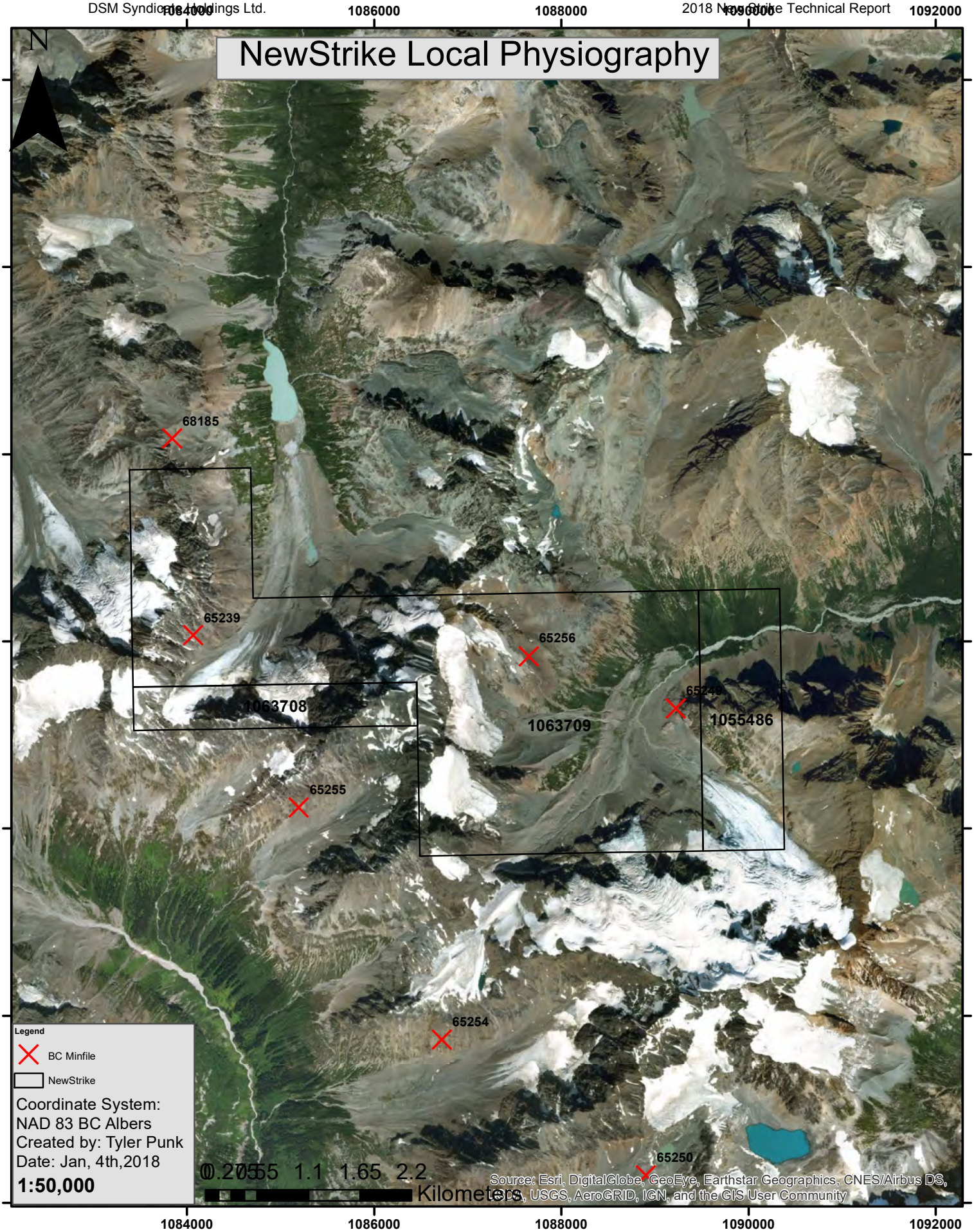
CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
Ag-GRA21	Ag-OG46	Au-AA24	Au-GRA22
CRU-31	CRU-QC	LOG-21	ME-ICP41
ME-OG46	Pb-OG46	PUL-31	PUL-QC
SPL-21	WEI-21	Zn-OG46	

D. MINFile Details


NewStrike Local Physiography
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Legend
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NewStrike
Coordinate System:
NAD 83 BC Albers
Created by: Tyler Punk
Date: Jan, 4th,2018
1:50,000
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Kilometers
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
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MINFILE Record Summary

MINFILE No 092N 035

File Created: 24-Jul-85 by BC Geological Survey (BCGS)
Last Edit: 06-Dec-92 by Chris J. Rees(CRE)

SUMMARY

Name	HOMESTAKE	**NMI**	
		Mining Division	Clinton
		BCGS Map	092N057
Status	Prospect	**NTS Map**	092N10W
Latitude	51° 33' 32" N	**UTM**	10 (NAD 83)
Longitude	124° 47' 09" W	**Northing**	5713490
		Easting	376205
Commodities	Gold, Silver, Copper, Zinc	**Deposit Types**	
Tectonic Belt	Coast Crystalline	**Terrane**	Stikine, Gambier

Capsule Geology

The Homestake occurrence consists of several minor gold and silver-bearing quartz veins in the mountainous terrain at the head of Razor Creek, 43 kilometres south of Kleena Kleene. Similar, though more significant mineralization occurs about 2 kilometres to the north at the Blackhorn Mountain occurrence (092N 019).

The area lies in the Stikinia Terrane near the northeastern margin of the Jurassic to Tertiary Coast Plutonic Complex, within a complex stack of recumbent folds and imbricated, gently southwest-dipping thrust sheets which also involve the Gambier overlap assemblage (Geological Survey of Canada Open File 1163, Map 1713A). The northeast-directed thrusting placed Upper Triassic (Carnian) and Lower Cretaceous volcanic and sedimentary rocks over Lower Cretaceous (Hauterivian) sedimentary rocks (Geological Survey of Canada Open File 1163, Papers 88-1E, 89-1E; Geology 1991). The thrusting took place in the Late Cretaceous because the thrusts are cut by a quartz diorite intrusion dated at 68 million years by the uranium-lead method on zircon (Geological Survey of Canada Paper 88-1E). The area of economic interest lies within the imbricated Upper Triassic and Lower Cretaceous rocks. The local geology probably involves more than one thrust sheet, but as thrusts were not recognized as such in the pertinent data sources, a structural interpretation of the local stratigraphy is not attempted here.

Most of the area around the occurrence is underlain by andesitic tuff and breccia, metamorphosed at greenschist grade and usually described as greenstone, or as chlorite schist where the rocks are sheared. Minor shale or argillite or sericitic schist is intercalated with the volcanics. The strata strike north to northeast and dip gently to moderately to the west. Underneath the metavolcanics are grey sericitic schist, green chloritic conglomerate, and black, platy argillite. The area is intruded by diabase dykes and numerous felsic to intermediate porphyritic dykes and sills; the dykes are generally steep, and strike east.

Quartz veins, of various thickness and length, are numerous. They are more common in the more foliated or sheared rocks, typically concordant with the foliation, suggesting that they are structurally controlled. Some silicification and rusty alteration (oxidation) is reported around some quartz veins and lenses. Locally the quartz has a honeycomb texture.

The veins that have received the most attention occur in the chloritic conglomerate or the metavolcanic greenschist; some of these are associated with shearing or faulting. Typically, the lenticular veins and quartz stringers are under 50 centimetres thick, and are discontinuous, extending for less than 10 or 20 metres. Locally they contain sulphide-rich lenses consisting of pyrite and minor chalcopyrite and sphalerite. One quartz and greenstone sample, taken over a width of 68 centimetres, assayed 26.7 grams per tonne gold and 6.8 grams per tonne silver (Minister of Mines Annual Report 1938). The greenstone host rock, containing disseminated sulphides, was analysed at 0.7 gram per tonne gold and 6.8 grams per tonne silver, measured over a width of 74 centimetres.

Apparently the only work on the Homestake occurrence was between its discovery in 1936 to 1940. This consisted of several surface cuts, the digging of a 45-metre adit, and prospecting.

Bibliography

EMPR AR 1937-F5; *1938-F37; 1940-A96
EMPR PF (Berniolles, L.M. (1991): Letter dated Nov.21, 1991)
GSC OF 1163
GSC P 68-33, p. 87; 88-1E, pp. 185-190; 89-1E, pp. 163-167
GSC MAP 5-1968; 1713A
GSA GEOLOGY 1991, pp. 941-944

MINFILE Record Summary

MINFILE No 092N 047

File Created: 29-Aug-85 by Allan Wilcox(AFW)
Last Edit: 11-Jan-92 by Chris J. Rees(CRE)

SUMMARY

Name	LORI, LOOT 1-2	**NMI**	
		Mining Division	Clinton
		BCGS Map	092N057
Status	Prospect	**NTS Map**	092N10E, 092N10W
Latitude	51° 33' 04" N	**UTM**	10 (NAD 83)
Longitude	124° 42' 42" W	**Northing**	5712502
		Easting	381325
Commodities	Gold, Silver, Copper, Zinc	**Deposit Types**	
Tectonic Belt	Coast Crystalline	**Terrane**	Stikine, Plutonic Rocks

Capsule Geology

The Lori occurrence is located in mountainous terrain north of Ottarasko Mountain. Interest began with the discovery of highly anomalous gold and copper values in quartz-rich float and talus in the area (up to 89 grams per tonne gold, Assessment Report 13150). Overall, however, in situ mineralization may be high but is erratic. The Lori occurrence encroaches on similar occurrences covered by the AT 3-4 (092N 057), HW (092N 058) and Champagne (092N 059) occurrences.

The area lies in the Stikinia Terrane near the northeastern margin of the Jurassic to Tertiary Coast Plutonic Complex, within a complex belt of folds and imbricated, gently southwest-dipping thrust sheets which also involve the Gambier overlap assemblage (Geological Survey of Canada Open File 1163, Map 1713A). The northeast-directed thrusting placed Upper Triassic (Carnian) and Lower Cretaceous volcanic and sedimentary rocks over Lower Cretaceous (Hauterivian) sedimentary rocks (Geological Survey of Canada Open File 1163, Papers 88-1E, 89-1E; Geology 1991). The thrusting took place in the Late Cretaceous because the thrusts are cut by a quartz diorite intrusion dated at 68 million years by the uranium-lead method on zircon (Geological Survey of Canada Papers 88-1E, 91-2). The area of economic interest probably lies within the imbricated Upper Triassic and Lower Cretaceous volcanic and sedimentary rocks. The local geology probably involves more than one thrust sheet, but as thrusts were not recognized as such in the pertinent data sources, a structural interpretation of the local stratigraphy is not attempted here.

Most of the area is underlain by locally hornfelsed and altered siltstone, mudstone and greywacke, with some fossiliferous sandy limestone, andesitic volcanic tuff or greenstone, volcanic breccia, and chert (Assessment Reports 13150, 17392). In one area, these rocks are intruded by a 15-metre thick, sill-like body of quartz monzonite, which is probably responsible for the hornfelsing; it is probably related to the Coast Plutonic Complex. The rocks are also intruded by fine-grained epidotized diorite and by dykes of feldspar porphyry, felsite, mafic porphyry, and hornblende lamprophyre.

Many of the rocks are well bedded, generally striking north and dipping gently to moderately west. No significant folding or shearing is reported. However, fracturing is common and locally intense, particularly in the quartz monzonite body; most fractures trend northwest, with some east-southeast, and dip steeply.

Most attention in the area has been given to a small grid called the "A zone". Mineralization here mainly occurs within the quartz monzonite intrusion, or around it in hornfelsed siltstone or greenstone (Assessment Report 13150). The intrusion is commonly fractured but virtually unaltered except for some oxidation. Sulphide mineralization in the intrusion and in the surrounding rocks is usually (but not always) associated with quartz or quartz-carbonate (calcite or ankerite) veins. It is also associated with zones of pyritic alteration or silicification. The quartz (+/- carbonate) veins are typically 5 to 10 centimetres thick, and may be traceable for a few metres; most trend northwest, with a subvertical or moderate dip to the west.

The sulphides occur as narrow veinlets, blebs or disseminations. Pyrite is generally present, locally accompanied by arsenopyrite or chalcopyrite; malachite and rare sphalerite are also reported (Assessment Reports 13150, 17392). Rock samples in the "A zone" generally contain less than 0.4 gram per tonne gold, but a few samples from a quartz-pyrite-arsenopyrite vein were assayed at between 1 and 20 grams per tonne gold, and at up to 3.8 grams per tonne silver (Assessment Report 13150). Copper analyses were up to 0.44 per cent in a malachite-bearing greenstone (Assessment Report 17392). Much higher values of gold and copper have been obtained from float blocks, which has sustained the interest in the area, but their source has not been identified.

Bibliography

EMPR EXPL 1983-340; 1988-C129
EMPR ASS RPT *13150, *17392, 18250
EMPR PF (Berniolles, L.M. (1991): Letter)
GSC OF 1163
GSC P 68-33; 88-1E, pp. 185-190; 89-1E, pp. 163-167; 91-2, pp. 109-113
GSC MAP 5-1968; 1713A
GSA GEOLOGY 1991, pp. 941-944

MINFILE Record Summary

MINFILE No 092N 059

File Created: 11-Jan-92 by Chris J. Rees(CRE)
Last Edit: 10-Apr-92 by Chris J. Rees(CRE)

SUMMARY

Name	CHAMPAGNE, HW 3, LORI 2	**NMI**	
		Mining Division	Clinton
		BCGS Map	092N057
Status	Prospect	**NTS Map**	092N10E
Latitude	51° 33' 23" N	**UTM**	10 (NAD 83)
Longitude	124° 44' 03" W	**Northing**	5713126
		Easting	379779
Commodities	Gold	**Deposit Types**	
Tectonic Belt	Coast Crystalline	**Terrane**	Stikine, Gambier

Capsule Geology

The Champagne occurrence is located in the rugged terrain southwest of Razorback Mountain. Interest began with the discovery of highly anomalous gold and copper values in quartz-rich float and talus in the area (up to 89 grams per tonne gold, Assessment Report 13150); overall, however, in situ mineralization may contain high assays but are erratic. The Champagne occurrence encroaches on similar showings covered by the Lori (092N 047) and HW (092N 058) occurrences.

The area lies in the Stikinia Terrane and Gambier overlap assemblage near the northeastern margin of the Jurassic to Tertiary Coast Plutonic Complex, within a complex belt of folds and imbricated, gently southwest-dipping thrust sheets (Geological Survey of Canada Open File 1163, 1713A). The northeast-directed thrusting placed Upper Triassic (Carnian) and Lower Cretaceous volcanic and sedimentary rocks over Lower Cretaceous (Hauterivian) sedimentary rocks (Geological Survey of Canada Open File 1163, Papers 88-1E, 89-1E; Geology 1991). The thrusting took place in the Late Cretaceous because the thrusts are cut by a quartz diorite intrusion dated at 68 million years by the uranium-lead method on zircon (Geological Survey of Canada Papers 88-1E, 91-2).

The area of economic interest probably lies within the imbricated Upper Triassic and Lower Cretaceous volcanic and sedimentary rocks; a more precise setting is not possible because of the structural complexity.

Most of the area around the occurrence is covered by talus, snow or ice. Where exposed, bedrock consists of volcanics and, locally, silicified and strongly pyritic siltstone and mudstone (Property File - Berniolles, L.M., 1991; Assessment Reports 13150, 17392, 18250). Volcanics in the region are typically andesitic (Geological Survey of Canada Open File 1163). A large dyke of unspecified composition intrudes the volcanics. Bedding generally strikes north and dips gently to moderately west. Fracturing is common and locally intense; most fractures trend northwest, with some east-southeast, and dip steeply.

The Champagne showing consists of a gold-bearing, subhorizontal quartz vein in volcanic rocks. The vein is 0.3 to 1.0 metre thick and can be traced along strike for at least 150 metres. Gold is associated with arsenopyrite. The best assay value obtained is 24.1 grams per tonne gold (Property File - Berniolles, L.M., 1991).

Bibliography

EMPR EXPL 1983-340; 1988-C129
EMPR ASS RPT 13150, 17392, 18250
EMPR PF (*Berniolles, L.M. (1991): Letter)
GSC OF 1163
GSC P 68-33; 88-1E, pp. 185-190; 89-1E, pp. 163-167; 91-2, pp. 109-113
GSC MAP 5-1968; 1713A
GSA GEOLOGY 1991, pp. 941-944