

**ASSESSMENT REPORT**  
describing  
**PROSPECTING, AND STREAM SEDIMENT SAMPLING**  
on the  
**JURASSIC PARK PROJECT**

Located on mapsheet  
NTS 105 E/10, 105E/14 & 105E/15  
503841mE 6846508 mN  
UTM Zone 8N NAD 1983

Field work performed between August 9<sup>th</sup> and 12<sup>th</sup>, 2020  
in the  
Whitehorse Mining District  
Yukon Territory

Prepared by  
Ryan Burke, B.Sc, G.I.T.

January 2021

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## **Introduction**

The Jurassic Park project was designed and performed to follow-up on anomalous regional stream sediment samples collected by the Geological Survey of Canada in 1985. The project area focussed along a section of the Yukon River between Hootalinqua and Cassiar Bar, Yukon Territory. The project area lies within the Traditional Territories of the Little Salmon/Carmacks First Nation, the Kwanlin Dün First Nation and the Ta'an Kwäch'än Council.

This report describes prospecting and geochemical sampling conducted between August 9<sup>th</sup> to 12<sup>th</sup>, 2020. The author interpreted all the data in this report and his Statement of Qualifications is provided in Appendix I. A Statement of Expenditures appears in Appendix II.

## **Project Location and Access**

The Jurassic Park project was focussed in two areas. Area #1 is located approximately 95 km north of Whitehorse. Area #2 is located approximately 120 km north of Whitehorse.

These areas are best accessible via the section of the Yukon River that flows between Lake Laberge and Carmacks. Lake Laberge is accessible by truck via Whitehorse along a paved all-season highway. From there, a public-use boat launch is available to use. From Lake Laberge it is possible to travel along the Yukon River. There is another public boat launch in the community of Carmacks (177 km along the highway from Whitehorse).

In 2020, fieldwork was performed by a 3-person crew between August 9<sup>th</sup> and 12<sup>th</sup>, 2020. Truck was used to mobilize crew, boat, and equipment from Whitehorse to Lake Laberge. Boat was utilized for river transport until the community of Carmacks, where a truck and trailer were utilized to demobilize boat, crew, samples, and equipment from Carmacks back to Whitehorse.

## **Geomorphology**

The project area focussed in the Semenof hills. The Semenof hills run subparallel to the Yukon River, beginning where the Yukon and Teslin rivers meet (Hootalinqua). The Semenof hills are prominent in this section of the Yukon River for about 60 km, until the Yukon meets with the Big Salmon River to the north.

These hills roughly trend north-northwest and for about 60 kilometres. Topography in the area is variable, with flat lowlands of black spruce forest off of the Yukon River (~600 m) and thick spruce, alder and willow covered, terraced glacial plateaus. Outcrop exposure is almost non-existent, and thick till dominates the area. There are two prominent till “benches” that are divisible based on satellite imagery. The first till bench exists from 600 m A.S.L to roughly 700-730m A.S.L. At around 730 m A.S.L. topography flattens in the area off of the Yukon River. From here, a second layer of till drapes atop the underlying bedrock until 1400 m A.S.L., which is the average height of the peaks in the area. From these high points, vegetation thins and the ridgelines are helicopter accessible. However, a thin till layer likely still persists on top of the



peaks. Creeks and drainages are abundant and have incised into the overlying till cover. This process has allowed the exposure of some bedrock, but it is still limited and difficult to locate.

### **History and Previous Work**

Very little historical exploration has occurred in this area due to glacial cover making the discovery of mineralization difficult. However, there is a small amount of historical work that has occurred near where exploration was focussed in 2020.

The MINFILE Cassier Bar (105E 016) was mapped and sampled in 1971 and 1972 by United Keno Explorations (a joint venture with United Keno Hill ML, Falconbridge Nickel ML and Can Superior EL). The geological description is “Minor chalcopyrite occurs in Hutshi Group volcanic rocks which are intruded by a small granitic stock. **Four grab samples of the best mineralization assayed 0.01 to 1.06% Cu and 0.62 to 9.6 g/t Ag.**”

The JOP claims, staked by Golden Predator Inc. in 2011 were located east of the project area. Of the 35 stream sediment samples collected to the east, one was anomalous for gold near the project area and returned 20.5 ppb Au.

### **Regional Geology**

Triassic to Jurassic granitoid plutons intrude the Intermontane terranes in British Columbia, Yukon and easternmost Alaska (Fig. 1; modified from Kovacs et al., 2020). In British Columbia, these plutons are associated with significant porphyry Cu ± Mo ± Au mineralization, but comparatively few copper occurrences are known along the northern extension of this belt in Yukon (Logan and Mihalynuk, 2014).

Porphyry Cu-Au ± Ag-Mo deposits are concentrated within the Stikine and Quesnel arc terranes, with most of their economic metal endowment emplaced within a six-million-year pulse centered around 205 Ma. Distinct trends of Cu-Au ± Ag-Mo mineralization within both arc terranes coincide in time and space with events that are attributed to effects of slab subduction (modified from Logan and Mihalynuk 2014).

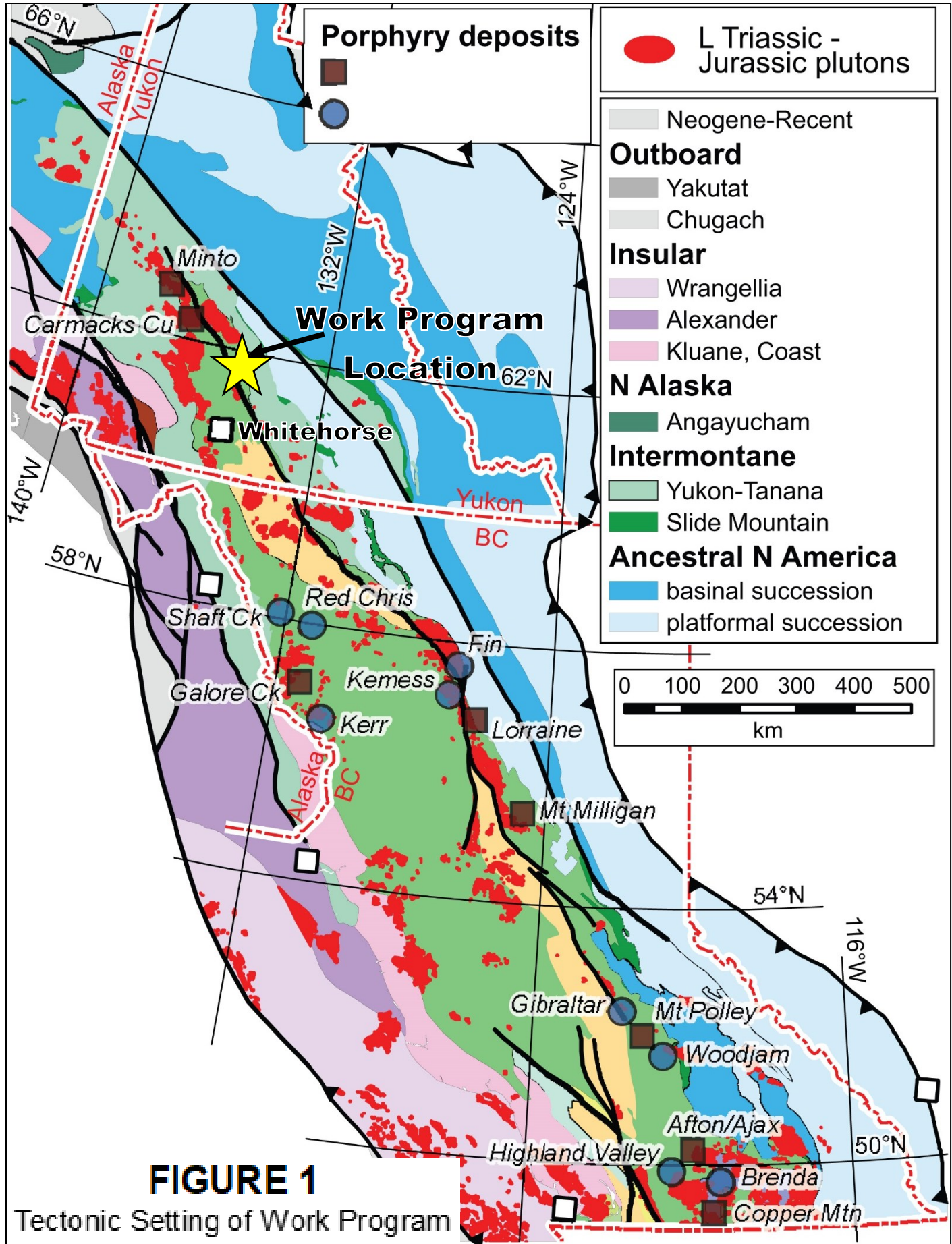
In Yukon, Stikinia and Quesnellia comprise mainly Upper Triassic arc volcanic and sedimentary rocks and local exposures of older, upper Paleozoic metavolcanic and metasedimentary sequences of arc and back-arc affinities (Hart, 1997; Colpron et al., 2006a). The dominantly Upper Triassic volcanic and volcanoclastic rocks of Quesnellia and Stikinia have similar composition and stratigraphic relationships which make them difficult to differentiate in central Yukon. The boundary between these two terranes is typically defined by the Teslin fault, the northern expression of the Thibert fault that marks the boundary between Quesnellia and the Cache Creek terrane in northern British Columbia. The position of the Teslin fault, and therefore the Quesnellia–Stikinia boundary, is, however, poorly constrained in central Yukon. Both Quesnellia and Stikinia in Yukon are inferred to have been developed atop a ‘basement’ comprising mid-Paleozoic and older elements of the Yukon-Tanana terrane (e.g., Nelson et al., 2013

Within Stikinia and Quesnellia in Yukon, the Povoas (Lewes River Group) and Semenof formations are regionally extensive Upper Triassic volcanic units that are broadly correlative with the Nicola, Stuhini and Takla groups of British Columbia. The region east of Carmacks is generally poorly exposed and Late Triassic intrusions are apparently sparse.

Most porphyry deposits form in the upper 5 km of the crust (Seedorff et al., 2005) with broadly coeval volcanic rocks commonly making up a significant proportion of the surface geology (Sillitoe and Perello, 2005). In some cases, the volcanic rocks can also host significant porphyry mineralization (*e.g.*, Copper Mountain and Mount Milligan).

In 1977 and 1984, this area was regionally mapped by Dirk Templeman-Kluit. His 1984 map is what the Yukon Geological Survey references in the current digital version of the bedrock geology of the Yukon.

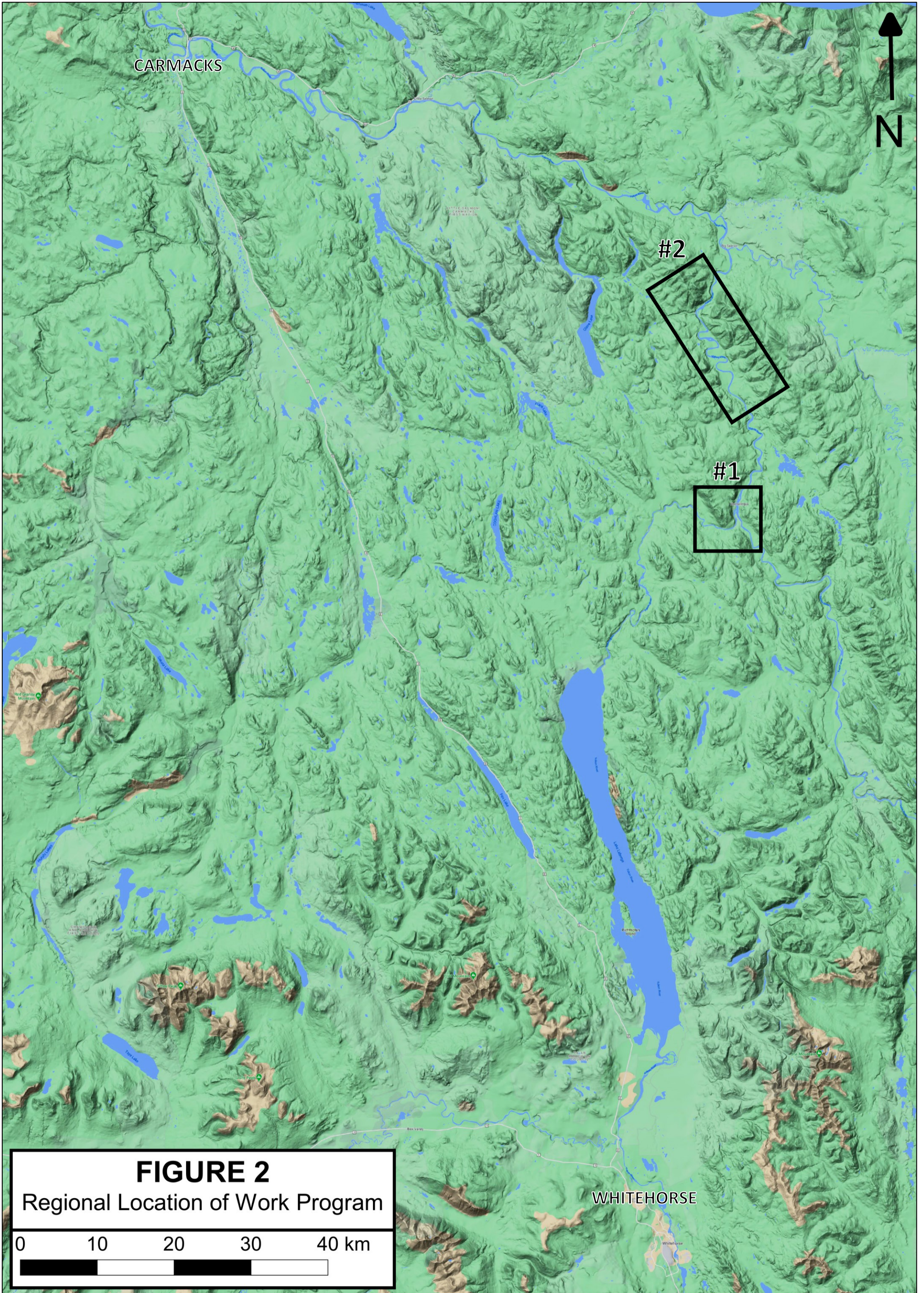
The majority of the area east of the Teslin Fault is mapped as Semenof volcanics, which is described as a mixture of augite-phyric basalt flows, agglomerates and tuffs, andesite, basalt and volcanic breccia, with minor rhyolite breccias and argillites (Tempelman-Kluit, 1984).



**FIGURE 1**

Tectonic Setting of Work Program

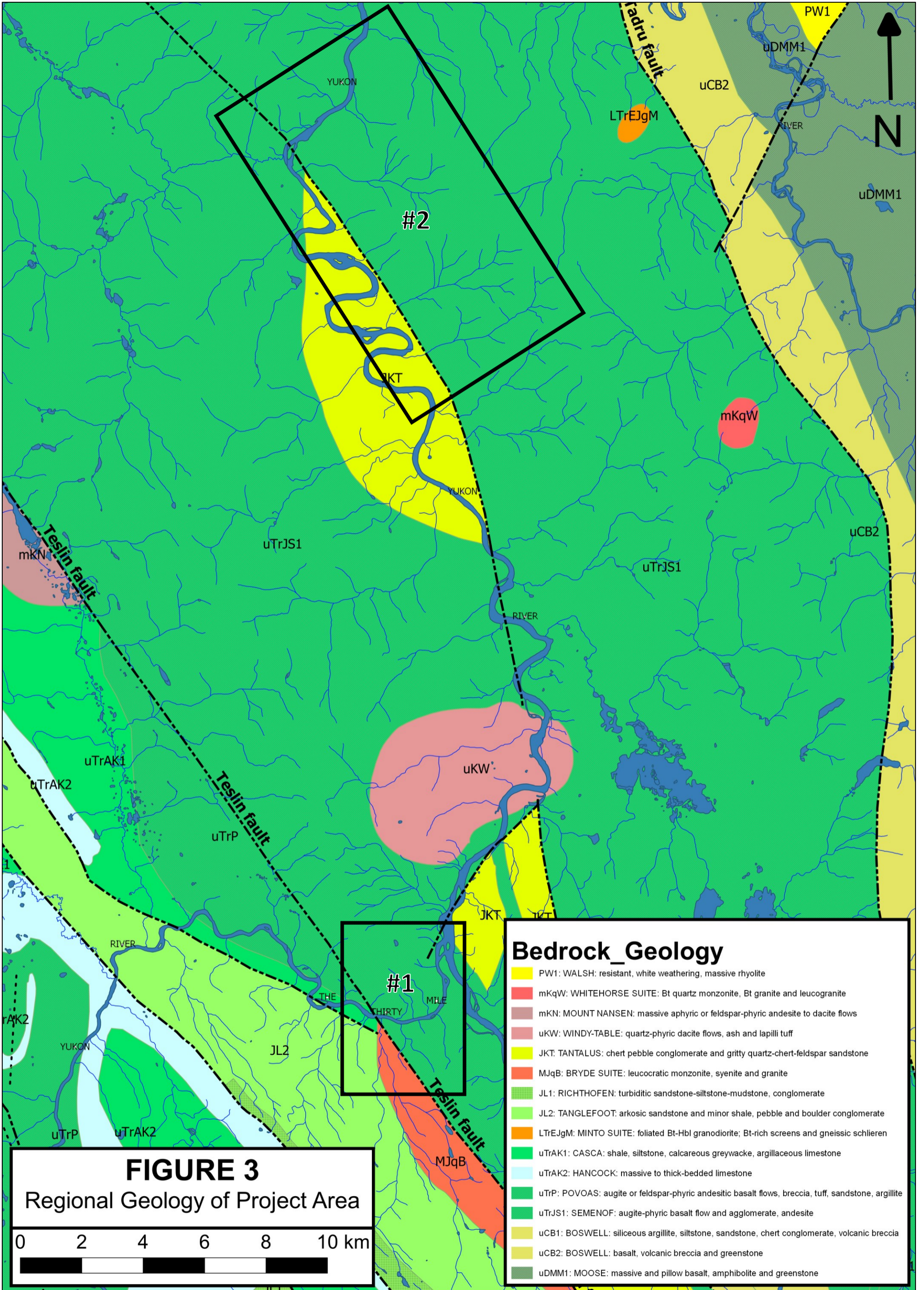




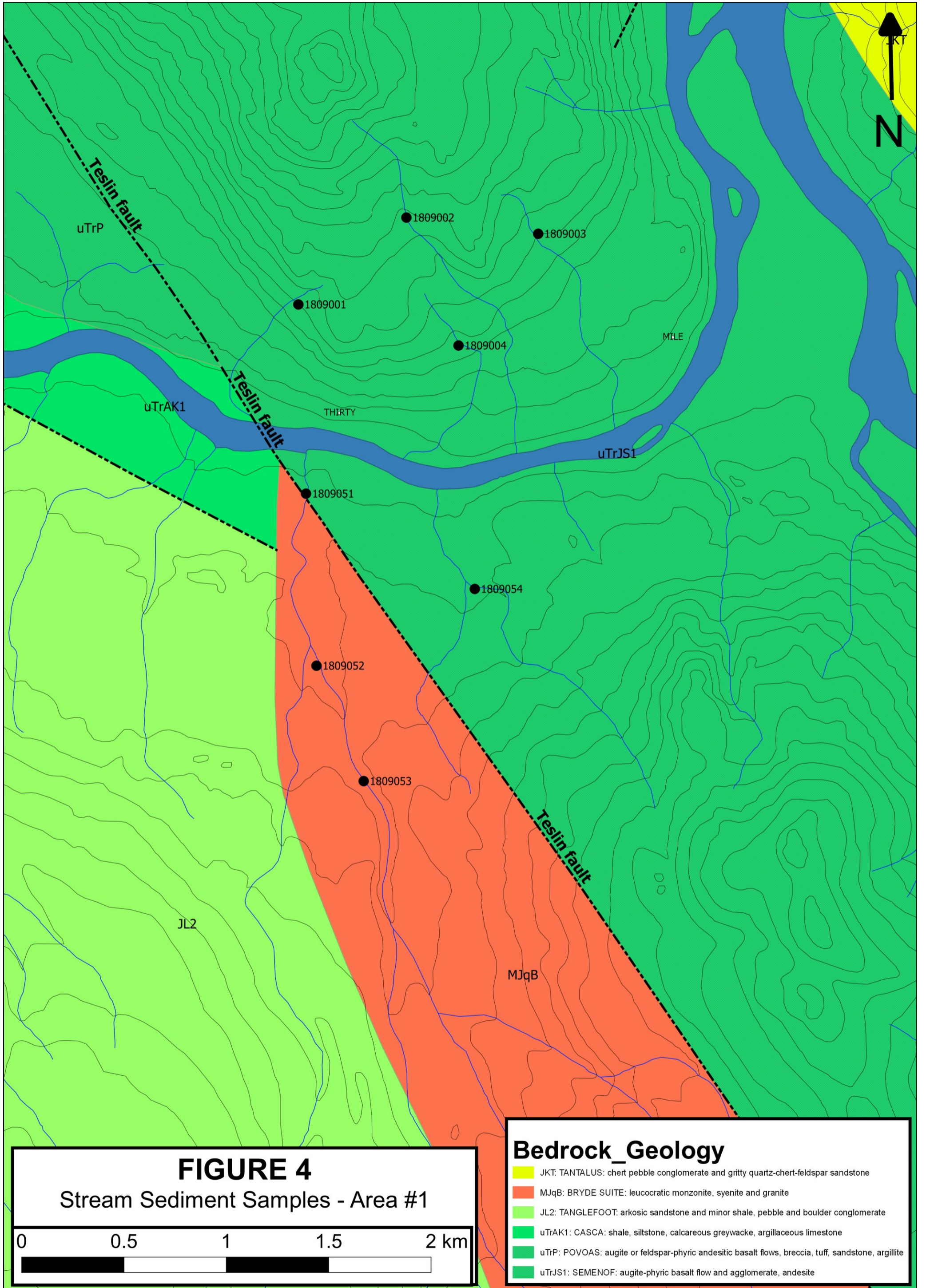
**FIGURE 2**

Regional Location of Work Program

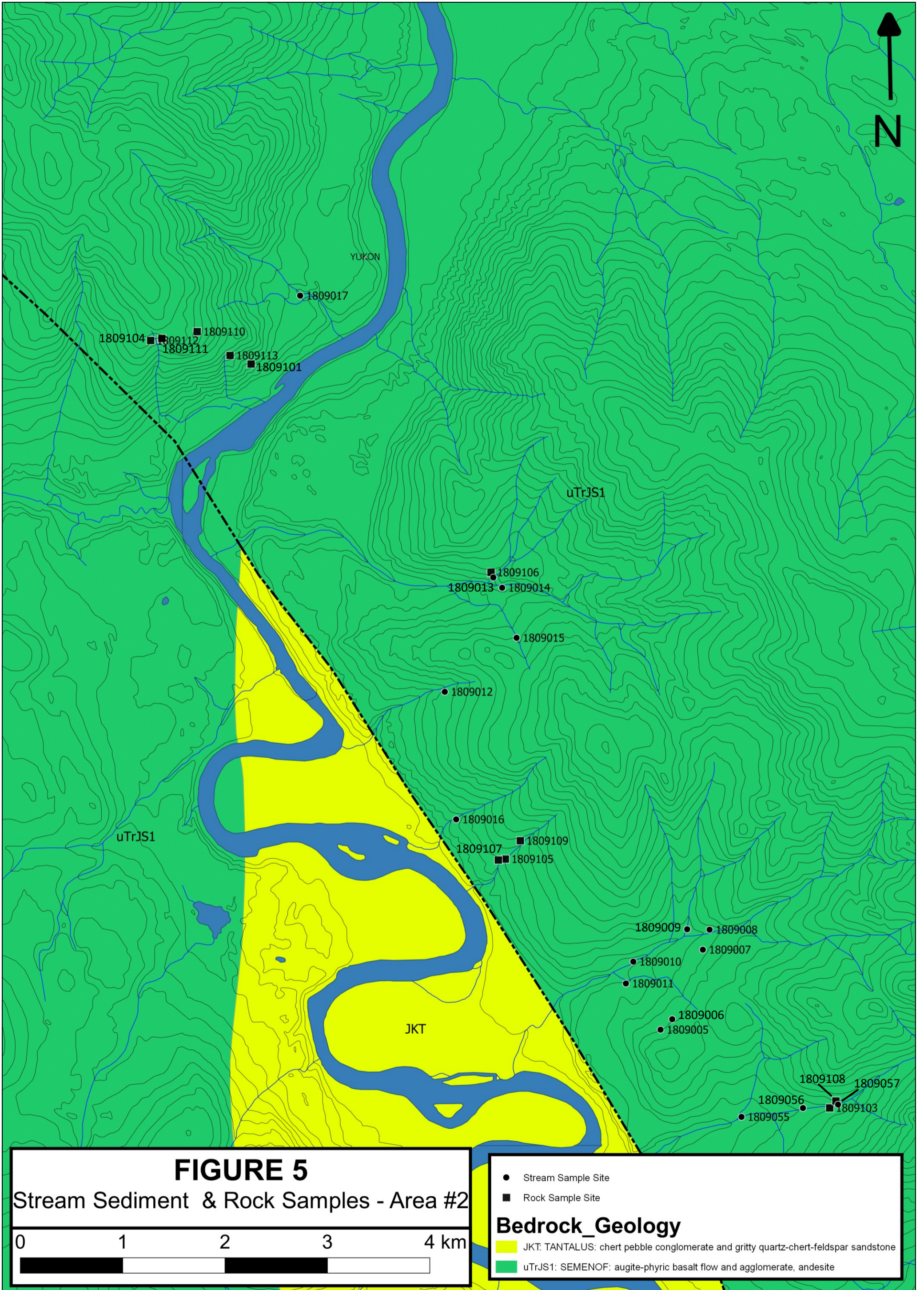






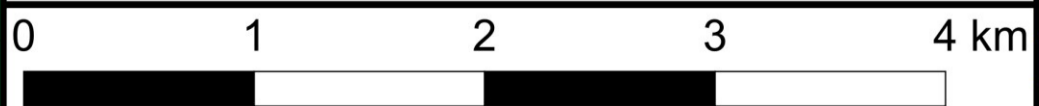






### FIGURE 5

#### Stream Sediment & Rock Samples - Area #2

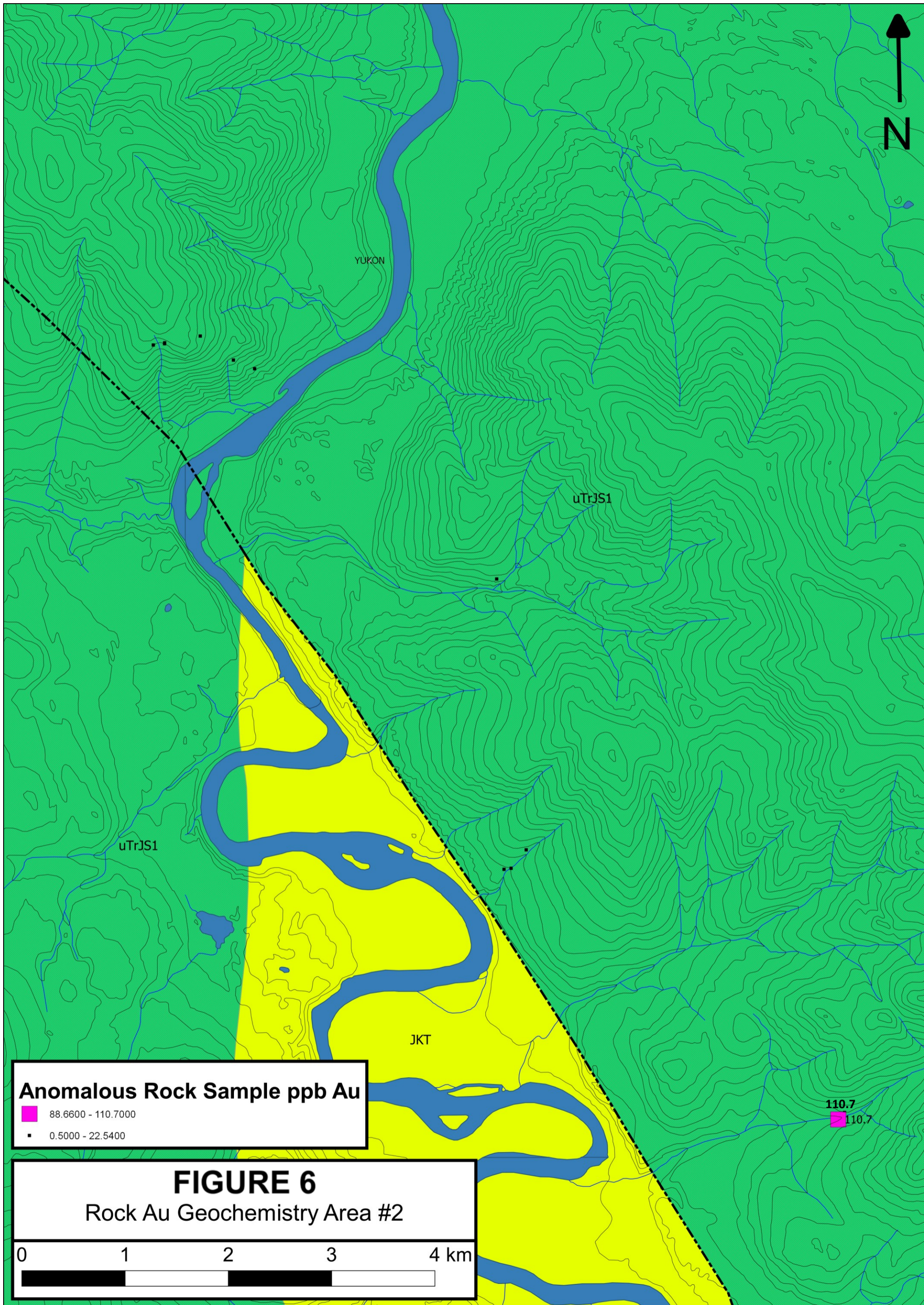


● Stream Sample Site  
■ Rock Sample Site

**Bedrock\_Geology**

■ JKT: TANTALUS: chert pebble conglomerate and gritty quartz-chert-feldspar sandstone  
■ uTrJS1: SEMENOF: augite-phyric basalt flow and agglomerate, andesite





**Anomalous Rock Sample ppb Au**

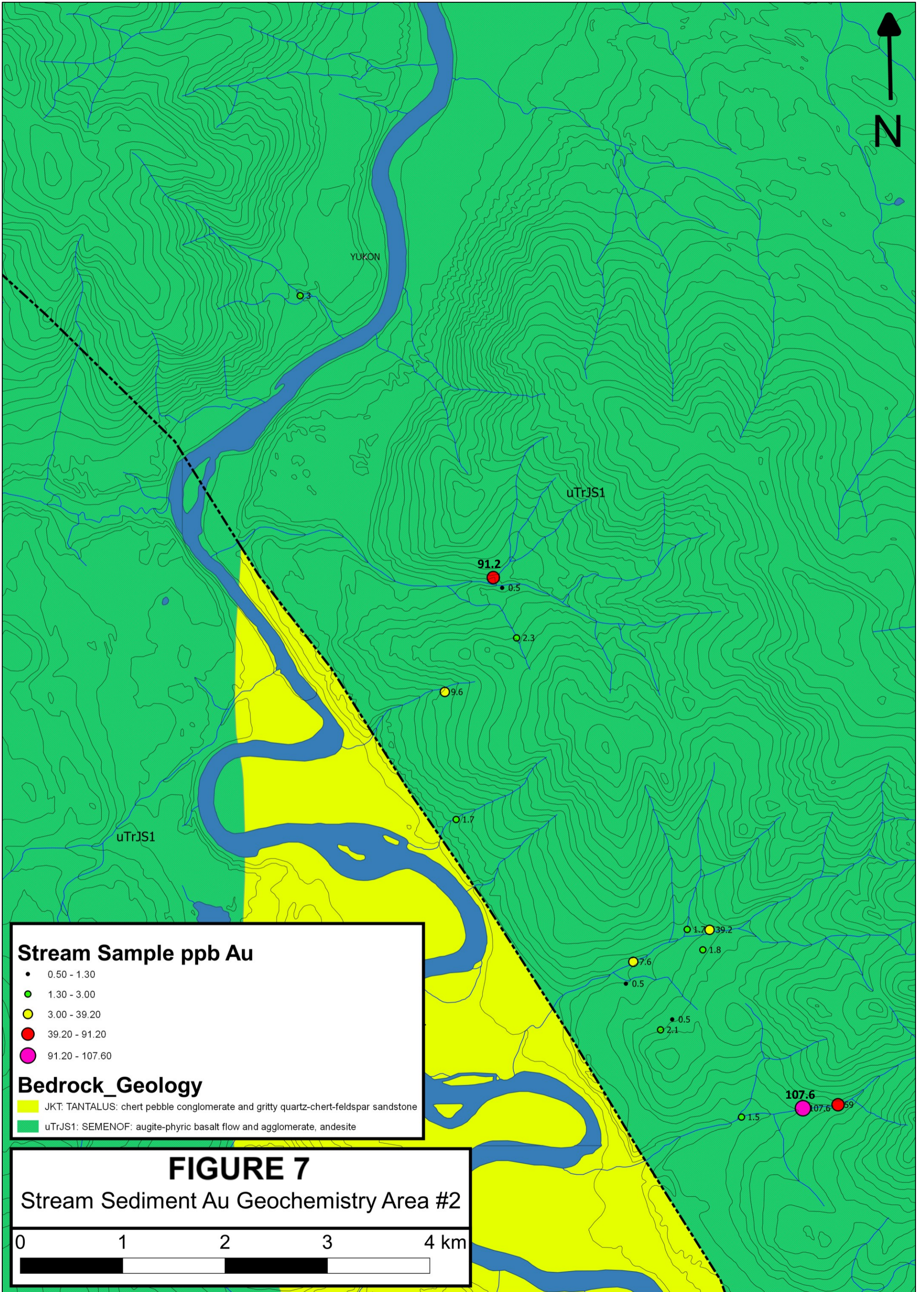
- 88.6600 - 110.7000
- 0.5000 - 22.5400

**FIGURE 6**

Rock Au Geochemistry Area #2

0 1 2 3 4 km





**Stream Sample ppb Au**

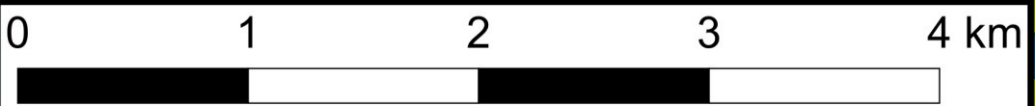
- 0.50 - 1.30
- 1.30 - 3.00
- 3.00 - 39.20
- 39.20 - 91.20
- 91.20 - 107.60

**Bedrock\_Geology**

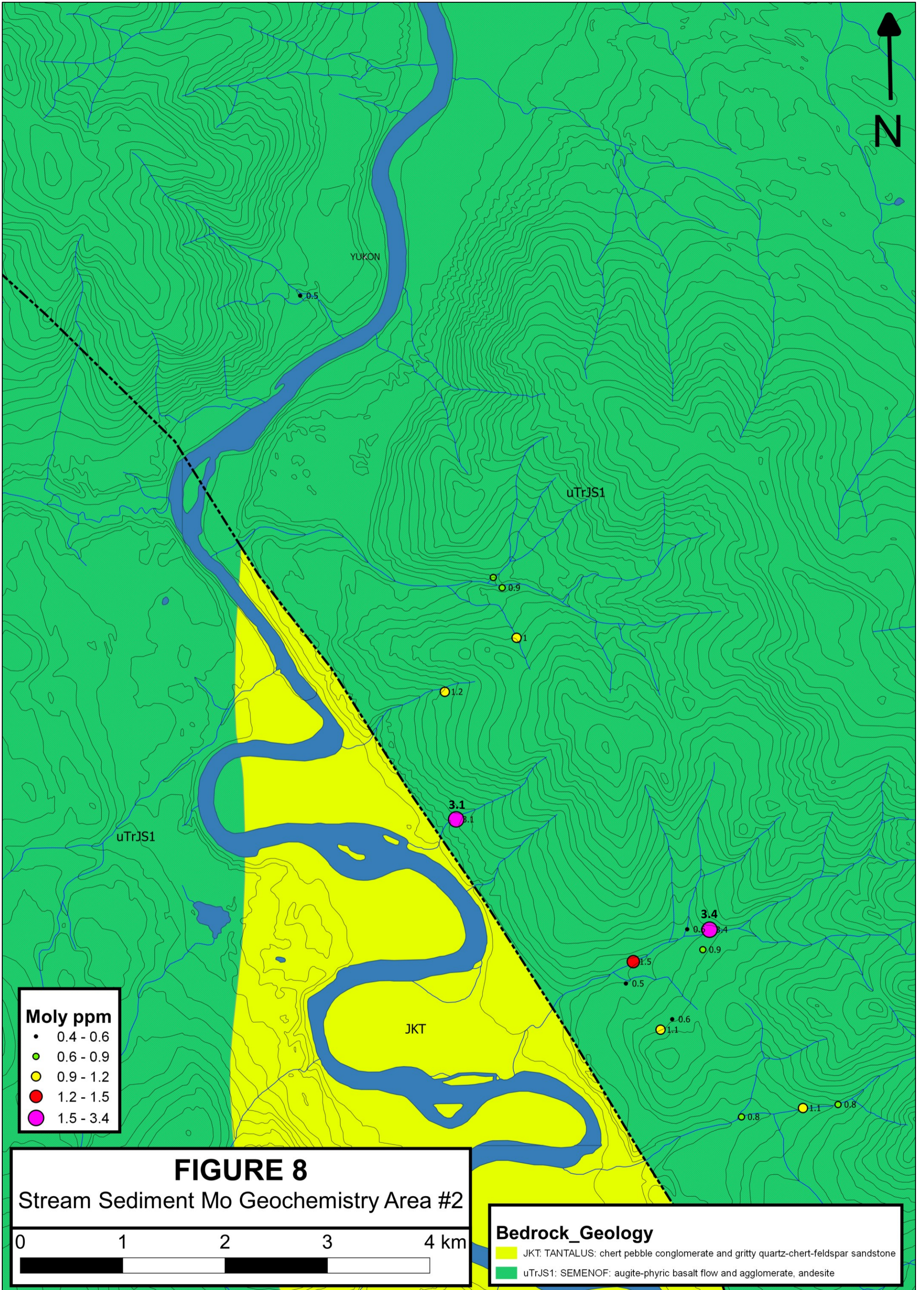
- JKT: TANTALUS: chert pebble conglomerate and gritty quartz-chert-feldspar sandstone
- uTrJS1: SEMENOF: augite-phyric basalt flow and agglomerate, andesite

**FIGURE 7**

**Stream Sediment Au Geochemistry Area #2**







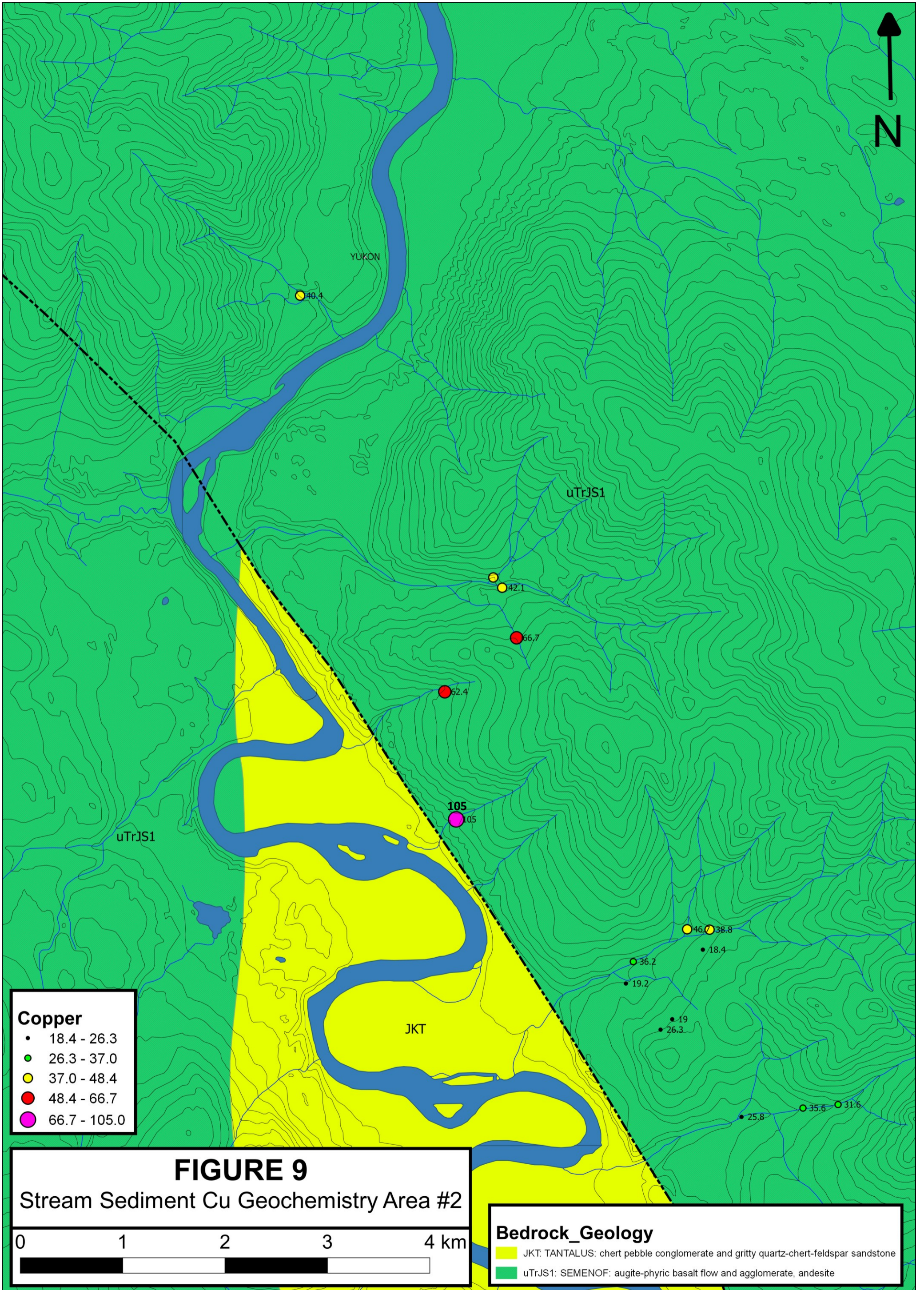
**Moly ppm**  
 • 0.4 - 0.6  
 • 0.6 - 0.9  
 • 0.9 - 1.2  
 • 1.2 - 1.5  
 • 1.5 - 3.4

**FIGURE 8**  
 Stream Sediment Mo Geochemistry Area #2

0 1 2 3 4 km

**Bedrock\_Geology**  
 JKT: TANTALUS: chert pebble conglomerate and gritty quartz-chert-feldspar sandstone  
 uTrJS1: SEMENOF: augite-phyric basalt flow and agglomerate, andesite







### **Geochemistry, Alteration & Mineralization**

Exploration in 2020 consisted of a 4-day field program with a 3-person field crew. The field crew collected 24 stream sediment geochemistry samples at ~750-m spacings in select drainages along creeks that drain into the Yukon River. Specifically, the hills between Hootalinqua and where the Big Salmon River join the Yukon River (areas #1 and #2 in Figure 2). In addition, 12 rock samples were collected. These samples were collected over a 35 km<sup>2</sup> area with the intention to increase the resolution of regional baseline geochemical data in an attempt to vector closer towards a potential economic mineral deposit. The results of this work resulted in numerous notable stream sediment anomalies when compared with the regional historical dataset. Of particular note is a 107.6 ppb Au stream sample taken near a 110.7 ppb rock sample. These early-stage results suggest that potential mineralization exists in till-covered areas of the Semenof hills that has yet to be discovered.

Stream sediment and rock sample locations and ID's are shown in Figure 4 and 5 for area #1 and #2, respectively. Area # 1 returned background levels for elements of interest. Figure 6 denotes the location of the 110.7 ppb Au anomalous rock sample in area #2. Figures 7 through 9 are thematically mapped stream sediment samples in area #2 for Au, Mo, and Cu, respectively.

### **Discussion and Conclusions**

Encouraging early-stage prospecting and geochemical sampling results on the Jurassic Park project warrant follow-up work. Anomalous copper, molybdenum, and gold values in stream sediment samples from area #2 deserve further investigation.

### Work Recommendations

The following is recommended for future work on the Jurassic Park Project:

- Follow-up of anomalous stream sediment and rock samples from 2020 exploration
- Ridge-and-spur geochemical till sampling along the ridgelines surrounding exploration area #2
- Mechanical trenching to expose bedrock beneath till cover, contingent upon positive geochemistry from ridge-and-spur sampling.

If positive results are obtained from the above recommended work, additional geochemistry, an airborne geophysical survey and a 1,000 m rotary air blast (RAB) drilling program on the most prospective targets is recommended.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Ryan Burke", is centered on a light green rectangular background.

Ryan Burke, B.Sc., G.I.T.

## References

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**APPENDIX I – Statement of Qualifications**



**STATEMENT OF QUALIFICATIONS**

I, Ryan Burke, geologist in training, with business and residential addresses in Whitehorse, Yukon Territory, do hereby certify that:

1. I graduated in 2018 from Memorial University of Newfoundland and Labrador with a B.Sc. (Hons.) in Geological Sciences.
2. I am currently registered as a Geoscientist In Training (G.I.T.) with Professional Engineers & Geoscientists Newfoundland & Labrador (PEGNL).
3. I have worked every summer since 2010 in a role related to the mineral exploration industry within the Yukon.
4. I have participated in this field program and personally interpreted all data resulting from this work.

A handwritten signature in black ink on a light gray background. The signature is written in a cursive, flowing style and reads "Ryan Burke".

Ryan Burke, B.Sc., G.I.T.

**APPENDIX II – Statement of Expenditures**

**Statement of Expenditures**

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<b>Labour, Camp Costs, Food</b>	<b>\$8,112.50</b>
<b>Assay Costs</b>	<b>\$978.54</b>
<b>Transport Costs</b>	<b>\$1,247.33</b>
<b>Equipment Rental (Handheld Radios &amp; Generator)</b>	<b>\$92.50</b>
<b>Report Writing Costs</b>	<b>\$1,050.00</b>
<hr/>	
<b>TOTAL EXPENDITURES</b>	<b>\$11,480.87</b>

**APPENDIX III - GEOCHEMICAL SAMPLE HANDLING AND  
ANALYTICAL PROCEDURES**

## **SAMPLE HANDLING AND ANALYTICAL PROCEDURES**

All rock and silt samples collected during the 2020 program were sorted into rice bags and sealed with a plastic zap strap and flagging. Samples were brought to Whitehorse by field personnel.

All samples were delivered by truck to Bureau Veritas Laboratories (BV) in Whitehorse, Yukon.

### **Rock Geochemical Samples**

All rock sample sites in 2020 were marked with flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit. All samples sent for shipment were bagged in a plastic ore bag with an individually pre-numbered sample tag placed in each bag.

The rock samples were processed and prepared at BV in Whitehorse, Yukon where they were dried and fine crushed to -2 mm. A 250 g split was then pulverized to 75 micron, and then shipped to BV Labs in Vancouver, British Columbia. A portion of this material was digested in aqua regia before being analyzed for 36 elements by the inductively coupled plasma-mass spectrometry technique (AQ201).

### **Silt Stream Geochemical Samples**

All silt geochemical samples collected on the property were marked with a handheld Garmin 64s GPS unit. Samples were collected with a D-spade shovel, targeting areas on the edges of creeks that were natural accumulation zones for fine-grained sediment. Around 5-kg of stream sediment was sieved through a 20-mesh screen into a plastic pan. From here, water was decanted off the top of the pan after settling of sediment had taken place. Sediment was then transferred into a 12 by 20 double-bagged sample bag. Additional settling of sample material occurred within the sample bag. From here, additional water was decanted from the sample bag. Samples were then flagged tightly shut with tape and put into backpacks for safe transport.

The silt samples were sent to BV, where they were dried and screened to minus 180 microns. A 50 g split of the screened fraction was dissolved in aqua regia and analyzed by AQ201.

**APPENDIX IV – Certificates of Analysis**



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

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Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **Ryan Burke**  
60 Boswell Crescent  
Whitehorse Yukon Y1A 4T3 Canada

Submitted By: Ryan Burke  
Receiving Lab: Canada-Whitehorse  
Received: August 31, 2020  
Analysis Start: October 01, 2020  
Report Date: October 08, 2020  
Page: 1 of 2

# CERTIFICATE OF ANALYSIS

WHI20000342.1

## CLIENT JOB INFORMATION

Project: CSB  
Shipment ID:  
P.O. Number  
Number of Samples: 13

## SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps  
PICKUP-RJT Client to Pickup Rejects

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ryan Burke  
60 Boswell Crescent  
Whitehorse Yukon Y1A 4T3  
Canada

CC:

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	12	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ201	12	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	12	Per sample shipping charges for branch shipments			VAN

## ADDITIONAL COMMENTS

  
JEFFREY CANNON  
Geochemistry Department Supervisor

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.  
\*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Project: CSB  
Report Date: October 08, 2020

Page: 2 of 2

Part: 1 of 2

# CERTIFICATE OF ANALYSIS

WHI20000342.1

	Method Analyte Unit MDL	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01
1809101	Rock	1.35	0.9	118.6	1.1	17	<0.1	8.9	7.4	457	0.82	2.3	<0.1	2.7	0.3	154	0.1	0.2	<0.1	34	20.35	
1809102	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	
1809103	Rock	1.24	0.4	123.2	2.2	74	0.2	111.7	30.6	1138	4.99	41.6	0.2	110.7	0.5	96	<0.1	0.2	<0.1	177	4.40	
1809104	Rock	0.29	0.3	31.5	1.8	61	<0.1	3.7	11.2	1544	3.37	3.5	0.2	<0.5	1.0	81	<0.1	0.6	<0.1	86	10.00	
1809105	Rock	1.17	0.6	84.4	2.1	62	<0.1	128.1	19.1	1375	3.51	3.0	0.2	<0.5	1.1	191	0.1	<0.1	<0.1	111	6.67	
1809106	Rock	0.97	0.3	64.6	0.9	21	<0.1	6.7	2.9	294	0.50	1.1	0.8	<0.5	1.3	204	<0.1	<0.1	<0.1	26	9.71	
1809107	Rock	2.16	2.9	773.7	1.0	19	0.3	4.7	3.6	205	1.02	0.8	<0.1	3.4	0.2	25	<0.1	<0.1	<0.1	16	1.41	
1809108	Rock	1.01	0.4	74.6	4.3	58	0.1	36.8	28.0	1509	6.75	14.7	0.4	3.9	1.0	179	<0.1	2.5	<0.1	176	6.79	
1809109	Rock	2.23	0.1	4.2	0.6	14	<0.1	3.4	5.4	335	1.71	1.1	<0.1	<0.5	0.4	83	<0.1	<0.1	<0.1	46	1.77	
1809110	Rock	0.75	1.6	40.7	3.0	67	0.2	71.4	28.2	558	4.23	1.8	0.3	<0.5	2.0	91	0.3	0.1	<0.1	39	7.22	
1809111	Rock	0.50	0.4	229.6	1.5	79	<0.1	15.6	25.3	819	4.94	3.8	0.2	7.0	0.9	70	<0.1	0.1	<0.1	135	1.91	
1809112	Rock	0.49	0.2	74.8	2.3	68	<0.1	12.3	21.2	1081	4.74	1.0	0.2	1.0	0.9	39	<0.1	0.2	<0.1	161	3.52	
1809113	Rock	0.78	0.3	36.5	2.7	27	0.2	17.5	3.1	151	0.94	2.0	0.2	1.4	0.5	16	0.1	0.1	<0.1	12	0.65	





Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** **Ryan Burke**  
60 Boswell Crescent  
Whitehorse Yukon Y1A 4T3 Canada

**Project:** CSB  
**Report Date:** October 08, 2020

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# CERTIFICATE OF ANALYSIS

WHI20000342.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
1809101	Rock	0.052	2	7	0.16	5	0.148	2	0.55	0.011	0.03	0.2	<0.01	2.7	<0.1	<0.05	2	0.6	<0.2	
1809102	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
1809103	Rock	0.133	5	101	2.50	140	0.002	5	0.60	0.039	0.05	<0.1	0.10	17.9	<0.1	0.11	2	0.6	<0.2	
1809104	Rock	0.101	12	3	0.57	620	0.002	2	0.56	0.004	0.07	<0.1	<0.01	8.4	<0.1	<0.05	1	<0.5	<0.2	
1809105	Rock	0.061	7	123	3.93	148	0.016	1	0.32	0.061	0.05	<0.1	<0.01	14.0	0.1	0.10	2	1.0	<0.2	
1809106	Rock	0.163	8	10	0.12	54	0.115	3	0.79	0.076	0.04	0.7	<0.01	1.7	<0.1	<0.05	3	0.5	<0.2	
1809107	Rock	0.028	3	3	0.40	35	0.001	1	0.49	0.049	0.11	<0.1	<0.01	1.0	<0.1	0.06	3	<0.5	<0.2	
1809108	Rock	0.082	7	83	2.54	42	0.002	3	0.42	0.034	0.03	<0.1	0.08	23.6	0.3	0.69	2	2.4	<0.2	
1809109	Rock	0.057	3	7	0.67	113	0.012	3	0.34	0.059	0.09	<0.1	<0.01	4.5	<0.1	<0.05	2	<0.5	<0.2	
1809110	Rock	0.304	41	36	0.81	122	0.003	5	1.69	0.016	0.20	<0.1	<0.01	4.0	<0.1	<0.05	3	1.5	<0.2	
1809111	Rock	0.095	9	11	2.07	118	0.054	2	2.54	0.058	0.12	<0.1	<0.01	14.5	<0.1	<0.05	9	<0.5	<0.2	
1809112	Rock	0.072	8	7	1.99	24	0.188	1	2.23	0.042	0.07	<0.1	<0.01	8.1	<0.1	<0.05	10	<0.5	<0.2	
1809113	Rock	0.007	<1	14	0.71	30	0.030	<1	0.53	0.005	0.03	<0.1	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2	



Bureau Veritas Commodities Canada Ltd.  
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**Client: Ryan Burke**  
60 Boswell Crescent  
Whitehorse Yukon Y1A 4T3 Canada

Project: CSB  
Report Date: October 08, 2020

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# QUALITY CONTROL REPORT

WHI20000342.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
1809110	Rock	0.75	1.6	40.7	3.0	67	0.2	71.4	28.2	558	4.23	1.8	0.3	<0.5	2.0	91	0.3	0.1	<0.1	39	7.22
REP 1809110	QC		1.6	41.2	3.1	67	0.2	72.8	28.3	567	4.31	1.4	0.3	<0.5	2.1	92	0.3	0.1	<0.1	40	7.23
Reference Materials																					
STD DS11	Standard		14.0	146.8	133.1	344	1.7	78.8	13.9	1026	3.11	42.3	2.4	79.0	7.3	64	2.2	8.2	11.4	48	1.06
STD OREAS262	Standard		0.6	112.2	52.3	151	0.4	62.9	26.9	535	3.22	34.9	1.1	65.7	8.4	34	0.6	5.3	0.9	21	2.96
STD DS11 Expected			14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	8.74	12.2	50	1.063
STD OREAS262 Expected			0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	5.06	1.03	22.5	2.98
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
Prep Wash																					
ROCK-WHI	Prep Blank		0.7	4.5	1.0	28	<0.1	0.8	3.7	427	1.80	1.3	0.4	0.6	2.2	19	<0.1	<0.1	<0.1	22	0.54
ROCK-WHI	Prep Blank		0.7	3.9	0.9	27	<0.1	0.7	3.4	409	1.76	1.2	0.3	<0.5	2.1	18	<0.1	<0.1	<0.1	21	0.51



Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
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**Client: Ryan Burke**  
60 Boswell Crescent  
Whitehorse Yukon Y1A 4T3 Canada

Project: CSB  
Report Date: October 08, 2020

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Part: 2 of 2

# QUALITY CONTROL REPORT

WHI20000342.1

Method		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																			
1809110	Rock	0.304	41	36	0.81	122	0.003	5	1.69	0.016	0.20	<0.1	<0.01	4.0	<0.1	<0.05	3	1.5	<0.2
REP 1809110	QC	0.311	42	36	0.83	127	0.003	6	1.76	0.016	0.20	<0.1	<0.01	4.1	<0.1	<0.05	3	1.7	<0.2
Reference Materials																			
STD DS11	Standard	0.067	17	58	0.85	359	0.090	7	1.15	0.071	0.40	2.9	0.27	3.1	4.7	0.27	5	2.3	4.8
STD OREAS262	Standard	0.039	14	42	1.15	234	0.002	3	1.27	0.066	0.29	0.2	0.16	3.1	0.4	0.26	4	<0.5	0.2
STD DS11 Expected		0.0701	18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56
STD OREAS262 Expected		0.04	15.9	41.7	1.17	248	0.0027	4	1.3	0.071	0.312	0.2	0.17	3.24	0.47	0.253	4.1	0.4	0.23
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																			
ROCK-WHI	Prep Blank	0.040	5	2	0.44	50	0.068	1	0.80	0.060	0.06	<0.1	<0.01	2.1	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	0.039	5	2	0.41	49	0.061	1	0.75	0.062	0.06	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2



**BUREAU VERITAS** MINERAL LABORATORIES  
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Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **Ryan Burke**  
60 Boswell Crescent  
Whitehorse Yukon Y1A 4T3 Canada

Submitted By: Ryan Burke  
Receiving Lab: Canada-Whitehorse  
Received: August 31, 2020  
Analysis Start: September 24, 2020  
Report Date: October 08, 2020  
Page: 1 of 2

# CERTIFICATE OF ANALYSIS

WHI20000345.1

## CLIENT JOB INFORMATION

Project: CSB  
Shipment ID:  
P.O. Number  
Number of Samples: 24

## SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps  
PICKUP-RJT Client to Pickup Rejects

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	24	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	24	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SVRJT	24	Save all or part of Soil Reject			WHI
SHP01	24	Per sample shipping charges for branch shipments			VAN
HANDX	1	Special Handling - see Job Notes			WHI

## ADDITIONAL COMMENTS

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Ryan Burke  
60 Boswell Crescent  
Whitehorse Yukon Y1A 4T3  
Canada

CC:



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.  
\*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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**Client:** **Ryan Burke**  
60 Boswell Crescent  
Whitehorse Yukon Y1A 4T3 Canada

**Project:** CSB  
**Report Date:** October 08, 2020

**Page:** 2 of 2

**Part:** 1 of 2

# CERTIFICATE OF ANALYSIS

# WHI20000345.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
1809001	Sediment	0.6	31.4	3.8	37	<0.1	13.0	7.1	463	1.80	4.7	0.3	1.0	1.1	36	0.2	0.5	<0.1	41	0.47	0.049
1809002	Sediment	0.4	21.6	2.0	22	<0.1	7.5	4.6	287	1.19	2.9	0.3	0.8	0.7	40	0.2	0.3	<0.1	31	0.65	0.056
1809003	Sediment	1.3	37.0	5.8	61	<0.1	30.5	9.8	303	2.76	14.4	0.5	2.8	2.0	92	0.4	1.8	0.1	55	1.85	0.075
1809004	Sediment	0.9	40.9	5.0	63	0.2	23.9	8.1	497	2.35	5.7	0.3	1.3	1.2	58	0.4	0.8	<0.1	47	0.82	0.059
1809005	Sediment	1.1	26.3	4.5	57	<0.1	27.8	9.2	367	2.44	10.4	0.4	2.1	2.8	51	0.2	0.7	<0.1	56	1.18	0.071
1809006	Sediment	0.6	19.0	3.4	48	<0.1	23.6	8.3	282	2.29	6.1	0.3	<0.5	2.1	23	0.2	0.5	<0.1	55	0.48	0.045
1809007	Sediment	0.9	18.4	2.8	33	<0.1	19.1	5.7	183	1.40	4.1	0.4	1.8	1.5	42	0.1	0.4	<0.1	37	0.72	0.049
1809008	Sediment	3.4	38.8	6.7	71	0.1	57.4	13.8	505	2.98	11.8	0.5	39.2	1.7	82	0.7	0.9	<0.1	79	2.62	0.072
1809009	Sediment	0.6	46.7	3.4	40	<0.1	21.2	7.6	326	1.70	4.7	0.4	1.7	1.1	160	0.5	0.4	<0.1	41	11.05	0.065
1809010	Sediment	1.5	36.2	5.0	56	<0.1	37.2	10.9	430	2.59	8.3	0.4	7.6	1.9	84	0.3	0.8	<0.1	69	3.29	0.076
1809011	Sediment	0.5	19.2	3.4	49	<0.1	24.1	9.1	355	2.29	7.8	0.4	<0.5	2.2	40	0.1	0.6	<0.1	50	0.87	0.056
1809012	Sediment	1.2	62.4	4.5	41	0.1	27.5	9.0	318	1.90	8.3	0.4	9.6	1.8	50	0.2	0.4	<0.1	54	1.19	0.067
1809013	Sediment	0.9	48.4	3.8	37	<0.1	23.3	8.0	272	2.18	6.7	0.5	91.2	1.5	46	0.2	0.4	<0.1	57	1.05	0.083
1809014	Sediment	0.9	42.1	4.6	61	<0.1	32.1	11.4	462	2.86	9.0	0.4	<0.5	1.8	51	0.3	0.6	<0.1	72	1.02	0.075
1809015	Sediment	1.0	66.7	3.3	33	<0.1	26.4	9.5	242	2.12	4.3	0.5	2.3	1.4	48	0.1	0.2	<0.1	61	0.83	0.061
1809016	Sediment	3.1	105.0	4.4	47	0.1	33.5	9.0	384	2.02	13.9	0.4	1.7	1.1	71	0.3	0.6	0.1	53	1.37	0.072
1809017	Sediment	0.5	40.4	3.4	42	<0.1	20.6	9.5	334	2.78	4.9	0.4	3.0	2.0	55	0.1	0.4	<0.1	77	1.37	0.062
1809051	Sediment	1.4	41.5	10.8	86	0.1	44.5	16.2	777	3.52	11.3	0.7	2.0	4.6	194	0.4	1.0	0.2	68	3.39	0.070
1809052	Sediment	1.1	21.7	6.2	63	<0.1	24.1	8.8	2847	2.40	6.3	0.5	1.9	1.9	283	0.6	0.6	<0.1	34	3.90	0.072
1809053	Sediment	1.1	18.7	5.5	62	<0.1	21.5	7.6	1043	2.19	7.0	0.4	1.9	1.9	160	0.3	0.6	<0.1	38	2.06	0.063
1809054	Sediment	1.1	34.5	8.5	81	0.1	39.7	15.6	803	3.16	8.9	0.7	1.0	3.4	85	0.5	1.0	0.2	65	1.34	0.076
1809055	Sediment	0.8	25.8	4.8	47	<0.1	32.2	10.1	357	2.39	7.8	0.4	1.5	2.2	46	0.2	0.5	<0.1	59	1.02	0.070
1809056	Sediment	1.1	35.6	5.5	58	<0.1	44.1	13.2	499	3.01	10.1	0.4	107.6	2.0	51	0.2	0.6	<0.1	76	1.26	0.073
1809057	Sediment	0.8	31.6	4.8	56	<0.1	33.1	10.6	484	2.68	8.3	0.5	59.0	1.9	54	0.2	0.6	<0.1	72	1.14	0.074



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**Client:** **Ryan Burke**  
60 Boswell Crescent  
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**Project:** CSB  
**Report Date:** October 08, 2020

**Page:** 2 of 2

**Part:** 2 of 2

# CERTIFICATE OF ANALYSIS

WHI20000345.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1809001	Sediment	6	17	0.27	115	0.042	8	0.95	0.017	0.12	<0.1	0.02	4.4	<0.1	<0.05	3	0.8	<0.2
1809002	Sediment	5	10	0.19	98	0.039	4	0.57	0.025	0.05	<0.1	0.02	2.5	<0.1	<0.05	2	<0.5	<0.2
1809003	Sediment	9	30	0.66	129	0.045	7	0.96	0.013	0.08	0.1	0.12	7.2	0.1	<0.05	3	<0.5	<0.2
1809004	Sediment	8	27	0.61	136	0.038	14	1.09	0.018	0.08	<0.1	0.06	6.0	<0.1	<0.05	3	1.8	<0.2
1809005	Sediment	10	34	0.65	127	0.073	3	0.99	0.014	0.06	0.3	0.04	5.4	<0.1	<0.05	3	<0.5	<0.2
1809006	Sediment	7	30	0.69	92	0.070	3	1.18	0.009	0.04	0.1	0.02	4.9	<0.1	<0.05	4	<0.5	<0.2
1809007	Sediment	6	22	0.39	98	0.050	2	0.74	0.021	0.05	0.1	0.03	3.0	<0.1	<0.05	2	<0.5	<0.2
1809008	Sediment	8	59	1.08	101	0.073	2	1.06	0.015	0.07	0.2	0.07	6.6	0.1	<0.05	4	0.5	<0.2
1809009	Sediment	6	25	0.62	179	0.055	7	0.85	0.014	0.07	0.1	0.05	5.5	<0.1	<0.05	2	1.1	<0.2
1809010	Sediment	8	44	0.84	121	0.078	3	1.03	0.015	0.07	0.2	0.07	5.4	<0.1	<0.05	3	0.8	<0.2
1809011	Sediment	8	30	0.68	105	0.065	2	0.96	0.011	0.05	0.2	0.03	4.4	<0.1	<0.05	3	<0.5	<0.2
1809012	Sediment	8	33	0.60	114	0.076	2	1.02	0.023	0.08	0.3	0.04	4.6	<0.1	<0.05	3	<0.5	<0.2
1809013	Sediment	9	35	0.63	130	0.075	4	1.11	0.019	0.09	0.1	0.06	4.5	<0.1	<0.05	3	<0.5	<0.2
1809014	Sediment	9	47	0.83	157	0.084	4	1.23	0.017	0.09	0.2	0.09	5.6	<0.1	<0.05	4	<0.5	<0.2
1809015	Sediment	7	36	0.65	90	0.092	1	1.16	0.026	0.09	0.3	0.03	4.6	<0.1	<0.05	4	<0.5	<0.2
1809016	Sediment	6	37	0.68	113	0.059	7	0.92	0.021	0.10	0.2	0.07	4.7	<0.1	<0.05	3	2.5	<0.2
1809017	Sediment	9	32	0.77	76	0.095	3	1.06	0.018	0.04	0.1	0.03	4.9	<0.1	<0.05	4	<0.5	<0.2
1809051	Sediment	13	47	1.12	318	0.086	4	1.68	0.028	0.18	0.2	0.04	7.8	0.2	<0.05	5	0.7	<0.2
1809052	Sediment	8	24	0.62	141	0.030	5	0.86	0.018	0.09	0.1	0.04	4.8	0.2	0.10	3	1.0	<0.2
1809053	Sediment	8	22	0.50	112	0.028	2	0.77	0.012	0.07	0.1	0.02	4.0	0.1	<0.05	3	<0.5	<0.2
1809054	Sediment	11	43	1.01	208	0.084	9	1.52	0.025	0.15	0.2	0.06	6.9	0.1	<0.05	5	1.2	<0.2
1809055	Sediment	9	40	0.76	104	0.074	2	1.05	0.015	0.06	0.2	0.05	5.0	<0.1	<0.05	4	<0.5	<0.2
1809056	Sediment	8	52	0.99	109	0.085	3	1.21	0.015	0.06	0.1	0.04	5.8	<0.1	<0.05	4	<0.5	<0.2
1809057	Sediment	8	45	0.81	108	0.084	4	1.13	0.016	0.06	0.3	0.06	5.2	<0.1	<0.05	4	<0.5	<0.2



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Project: CSB  
Report Date: October 08, 2020

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# QUALITY CONTROL REPORT

WHI20000345.1

Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
1809016 Sediment	3.1	105.0	4.4	47	0.1	33.5	9.0	384	2.02	13.9	0.4	1.7	1.1	71	0.3	0.6	0.1	53	1.37	0.072	
REP 1809016 QC	3.2	109.0	4.4	49	0.1	34.5	9.0	386	2.09	14.5	0.4	1.6	1.2	72	0.4	0.6	<0.1	54	1.45	0.072	
Reference Materials																					
STD DS11 Standard	15.0	143.8	140.4	344	1.7	79.9	13.7	989	3.34	43.6	2.6	68.5	8.2	72	2.3	8.3	12.0	53	1.10	0.069	
STD OREAS262 Standard	0.6	112.9	59.8	155	0.5	64.6	28.1	529	3.57	37.7	1.3	59.8	10.1	38	0.6	5.4	1.1	23	2.96	0.038	
STD DS11 Expected	14.6	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	2.59	79	7.65	67.3	2.37	8.74	12.2	50	1.063	0.0701	
STD OREAS262 Expected	0.68	118	56	154	0.45	62	26.9	530	3.284	35.8	1.22	65	9.33	36	0.61	5.06	1.03	22.5	2.98	0.04	
BLK Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	



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# QUALITY CONTROL REPORT

WHI20000345.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
1809016	Sediment	6	37	0.68	113	0.059	7	0.92	0.021	0.10	0.2	0.07	4.7	<0.1	<0.05	3	2.5	<0.2
REP 1809016	QC	6	37	0.70	114	0.060	9	0.95	0.021	0.11	0.1	0.08	4.8	<0.1	<0.05	3	2.5	<0.2
Reference Materials																		
STD DS11	Standard	19	62	0.87	358	0.093	7	1.15	0.073	0.40	3.2	0.24	3.5	5.2	0.24	5	1.7	4.6
STD OREAS262	Standard	16	44	1.20	249	0.003	3	1.28	0.067	0.29	0.2	0.17	3.6	0.5	0.24	4	<0.5	0.2
STD DS11 Expected		18.6	61.5	0.85	385	0.0976		1.1795	0.0762	0.4	2.9	0.26	3.4	4.9	0.2835	5.1	2.2	4.56
STD OREAS262 Expected		15.9	41.7	1.17	248	0.0027	4	1.3	0.071	0.312	0.2	0.17	3.24	0.47	0.253	4.1	0.4	0.23
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2