

ASSESSMENT REPORT

Tahsis Area Project

Multivariate data fusion and
Remote Sensing Analyses
Of the
TAHSIS CLAIM GROUP

BC Geological Survey
Assessment Report
31969

Tenures: #534520; 534845; 549088; 566323

EVENT

4795799

Alberni Mining Division
NTS 092E/15; E/16; E/9; E/10
92E.078
UTM Zone 9N (NAD 83)
Lat: 49.7283° Long: -126.4865°
Northing: 681081
Easting: 5513572

**(Associated Minfile # 092E 020
ARIS 28386; 29909; 31749)**

For
Rock-Con Exploration

By
Auracle Geospatial Science Inc.
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Table of Contents

Executive Summary.....	3
Introduction.....	4
Location and Access.....	4
Physiography.....	4
Mineral Tenure Status.....	5
Previous Work.....	5
Geology.....	5
Remote Sensing and Field work.....	5
Results.....	7
Conclusion and Statement of Work	8
Figures	
1. General Location Access and Terrain.....	9
2. Digital Elevation 3D models.....	10 and 11
3. Regional Geology over Panchromatic image.....	12
4. Alteration Mineral Classification Map.....	13

Appendices

- I Statement of Qualification
- II Tables of Costs

EXECUTIVE SUMMARY

Auracle Geospatial Science Inc. was asked in 2010 by Rock-Con Exploration to carry out a data acquisition, compilation and remote sensing program on their TAHSIS mineral claims which had been staked for their base metal (Copper) potential. This work was to be conducted in two phases, with the first phase comprised of Ortho-correction of optical and spectral data and the second phase including the acquisition and fusion of Synthetic Aperture Radar (SAR data).

According to the 2005 BC Geological Survey Digital Map: this area consists geologically of the Eocene to Oligocene Mount Washington Plutonic, Early to Mid Jurassic Island Plutonic Suite granodioritics, and Mid to Upper Triassic age Vancouver Group Quatsino Formation: limestone; marble and calcareous rocks bounded by two north west striking mapped faults.

Remote Sensing work featuring Spectral Analysis was carried out on the tenures by the author and included the acquisition of satellite spectral data available from NASA, pre-processing the data into a workable format, orthorectifying and georeferencing to map data, atmospheric correction, noise reduction with rigorous and extensive classification of the data in search of indicators, or relationships that might lead to the discovery of metallic mineralization. This program was meant to apply recently developed technologies and methodologies together with the latest computer software available for spectral analysis as a tool for mineral exploration.

This spectral analysis program was highly labour and computer intensive. Tenure data files were subject to classification and analysis resulting in numerous images for examination. These Classification images were examined for correlation to known or mapped contacts and surface geology. Spatial correlation was not considered to be conclusive however there are several resulting alteration signatures and mineral end members were identified. This phase of the work was also preparatory to the second phase in that it provides 10 metre resolution ortho correct positional data.

A PIMA ground truthing program to verify the resulting data is advised to examine these relationships.

Auracle Geospatial Science Inc.
Dec 2010

INTRODUCTION

In May of 2006 these tenures were acquired by well known Vancouver Island prospector Allan R. Francis. This prospective area is a target for porphyry copper type occurrences and Skarn type occurrences. Rising demand and prices for metals on the world market was added incentive for these acquisitions. In 2010 Connie McCombs, Rocky Ostaffy and Don Hubbard asked Auracle Geospatial Science Inc. to conduct exploration to search for alteration mineralization by remote sensing. Remote Sensing spectral analysis is a recent and still developing exploration tool. David McLelland has gained valuable experience in the use of spectral data as part of his Post Graduate Diploma, Master of Science, and industry training and certification programs.

Alteration and surface mineralization mapping by remote sensing have become accepted methods in mineral exploration. This work program has provided further information and insight into the surface constitution of this mineral tenure.

LOCATION AND ACCESS (See Figure 1 – General location Map)

The Hisnit tenure group is located approximately 12 kilometres southeast of the Town of Tahsis on the west coast of Vancouver Island British Columbia. Access to the general area is by the Head Bay –Tahsis Forest Service Road. Hisnit Main logging road intersects the Head Bay FSR 2kilometers north of head bay and initially travels west before continuing south-east to the Tahsis Claim Group

PHYSIOGRAPHY (figure 1 and 2)

This prospect area is situated on a peninsula forming Hisnit Inlet to the West, Tlupana to the south and Head Bay to the East. The central section of this tenure group consists of a boggy central drainage featuring four small lakes. These smaller lakes drain further into a larger lake which lies east to west across the isthmus lowland of the peninsula. There are two prominences, one on each side (East and West) of the peninsula. Elevation ranges from sea level to 500 metres. The tenure mountainsides are treed with mature second growth Fir, Balsam, Hemlock and Cedar timber. Ground cover is thick salal in the lower elevations.

MINERAL CLAIM STATUS

This Claim is held in Good standing by C. A. McCombs (FMC#131341). The Tahsis group includes 1521.98 hectares of mineral tenure. CA McCombs enjoys a 100% unencumbered interest in these claims. Please refer to the cover confirmation sheet for further information.

Tahsis Property								
534520	THASIS	131341 (100%)	Mineral	Claim	092E	2006/may/27	2010/sep/30	GOOD
534845	AVA	131341 (100%)	Mineral	Claim	092E	2006/jun/02	2010/sep/30	GOOD
549088	TAHSIS2	131341 (100%)	Mineral	Claim	092E	2007/jan/11	2010/sep/30	GOOD
566323	TAHAHA	131341 (100%)	Mineral	Claim	092E	2007/sep/20	2010/sep/30	GOOD
574699	LIMESTONE	131341 (100%)	Mineral	Claim	092E	2008/jan/27	2010/sep/30	GOOD

PREVIOUS WORK

No recorded work is attributed to the ground encompassed by this tenure; the tenures adjacent however include a 2006 ARIS report on the Century Limestone Property (28386). Adjacent to and bounded on three sides by the Tahsis Claim Group is the Hisnit Inlet there is a Past producing Marble Quarry (Minfile 092E020). There is no record of previous work within the tenure boundaries

GEOLOGY (figure3)

According the 2005 BC Geological Survey Digital Map: this area consists geologically of the Eocene to Oligocene Mount Washington Plutonic, Early to Mid Jurassic Island Plutonic Suite granodioritics, and Mid to Upper Triassic age Vancouver Group Quatsino Formation: limestone; marble and calcareous rocks bounded by two north west striking mapped faults.

REMOTE SENSING 2010

SPECTRAL ANALYSIS

Spectral Analysis was conducted using ASTER L1B data granule: AST_L1B_003_08042000195124_06172003184024 which was selected for suitability to multispectral image analysis for mineral classification based on the date of collection, time of day, presence of cloud over the target area, and availability of coherent Multi-band data. This granule is cloud free (0%) low aerosol image covering the TAHSIS GROUP. L1B images are

unprocessed data requiring georegistration, orthorectification and other pre processing for this application. NTS vector data was acquired for mapping and combined with the BC geological survey's 9N UTM dataset.

EQUIPMENT and SOFTWARE

These data were processed using Clark University's IDRISI ANDES and CARTOLINX raster GIS, ESRI and ENVI raster analysis applications.

PROCESSING and ANALYSIS

Data was imported as raw reflectance data and visually checked for completeness and consistency before a series of pre-processing steps were taken. Pre-processing included georeferencing of the image data to create positional reference. Image pairs were extracted from the data and used to create a digital elevation Model (DEM) The DEM was used as a basis for primary orthorectification. A 10 metre Spot 5 pan ortho image then used to improve the accuracy of the ASTER ortho set. All of the orthodata was then Georeferenced which consisted of resampling and rubber sheeting the data using a cubic convolution method, and reprojecting the resulting data to Universal Transverse Mercator projection to a NAD 83 Datum. A region of interest (dark oceanic water) depicting a flat spectral field was used as a basis for a Flat Field Atmospheric Correction. The atmospherically corrected images were processed using a minimum noise fraction (MNF) transform to identify and reduce noise. Six MNF bands contained spatially coherent noise whitened data above a threshold of 0.80 and 6 input channels were generated and from these a level of spectral coherence was achieved, that is that data was extracted that represented the significant spectral information contained within and the insignificant data was eliminated. This MF data was entered into a Pixel selection algorithm and 15,000 iterations were performed to extract 10,000 representative pixels. These pure pixels were analyzed in an n-Dimensional visualizer and 12 spectra were extracted as 'pure' representative pixels from the image data. The MNF data was classified using a variety of statistical methods including mixture tuned matching, spectral angel comparison, and pixel unmixing to generate classification images of pixels which most likely represent the spectral end members of specific minerals. The Spectral end members were compared with those collected in 15 spectral libraries including those of the US Geological Survey, Johns Hopkins University, Jet Propulsion Laboratory, and several other industry standard libraries.

RESULTS

The Initial Minimum Noise Fraction multiband Data produced adequate spectral coherence for subsequent analysis. The 12 spectral responses or signals were examined for their correlation to the established spectral libraries. The resulting correlations are shown with their spectral feature fit score (SFF):

- Class 1: USGS Hematite SFF 0.506 and JPL 3 Sphalerite SFF0.473
- Class 2: USGS Axinite SFF 0.617
- Class 3: JPL2 Ferroaxinite SFF0.568 and JPL2 Chalcopyrite SFF 0.489
- Class 4: USGS Pigeonite SFF 0.580 and JPL1 Galena SFF 0.404
- Class 5: USGS Ferroaxinite SFF.661 andJPL1 Pigeonite SFF 0.544
- Class 6: USGS Aluminum Chlorite SFF0.543 JPL 3 Sphalerite SFF0.571
- Class 7: JPL3 Tschermegite SFF 0.485 and Pyrite SFF 0.456
- Class 8: Null
- Class 9: USGS Hypersthene SFF 0.775 IGCP5 Buddingtonite SFF0.668
- Class 10: Null
- Classes 11 and 12 USGS Ferroaxinite SFF 0.687

The Following Graphic provides the Colour Key to the attached spectral map (Figure 4)

<input type="checkbox"/> On		Unclassified	<input checked="" type="checkbox"/> On		#7Tschermegite/Py
<input checked="" type="checkbox"/> On		#1Hematite/Sphale	<input type="checkbox"/> On		#8
<input checked="" type="checkbox"/> On		#2Axinite	<input type="checkbox"/> On		#9Hypersthene/Bu
<input checked="" type="checkbox"/> On		#3Ferroaxinite/Chal	<input type="checkbox"/> On		#10
<input checked="" type="checkbox"/> On		#4Pleonite/Galena	<input checked="" type="checkbox"/> On		#11FerroAxinite1
<input type="checkbox"/> On		#5Ferroaxinite/Pige	<input checked="" type="checkbox"/> On		#12FerroAxinite2
<input checked="" type="checkbox"/> On		#6A-Chlorite/Sphal	<input type="checkbox"/> On		Masked Pixels

Spectral Map Colour Key

CONCLUSIONS

This Claim Group has the potential for dimension stone and for metallic mineral deposits.

Sulphide group mineral spectra were located along the contact of a mapped limestone unit which could indicate skarn potential.



This is an area of potential which is supported by this work and analyses. The area, while quite rugged is accessible and is amenable to further work and seems to be in a region of possible future development. This area seems to be underexplored at present. Spectral analysis has identified areas of interest that should receive more intensive ground based follow up, and the second phase of data fusion is recommended.

STATEMENT OF WORK and COSTS







This work was carried out by Auracle Geospatial Science Inc. for Rock-Con and fulfils the requirements of assessment work on the Tenures shown. Work is as disclosed on the following tables of costs.

Thesis



Mineral Titles Layers

-  My Property Tenure
-  All Mineral Tenures


Topographic Layers

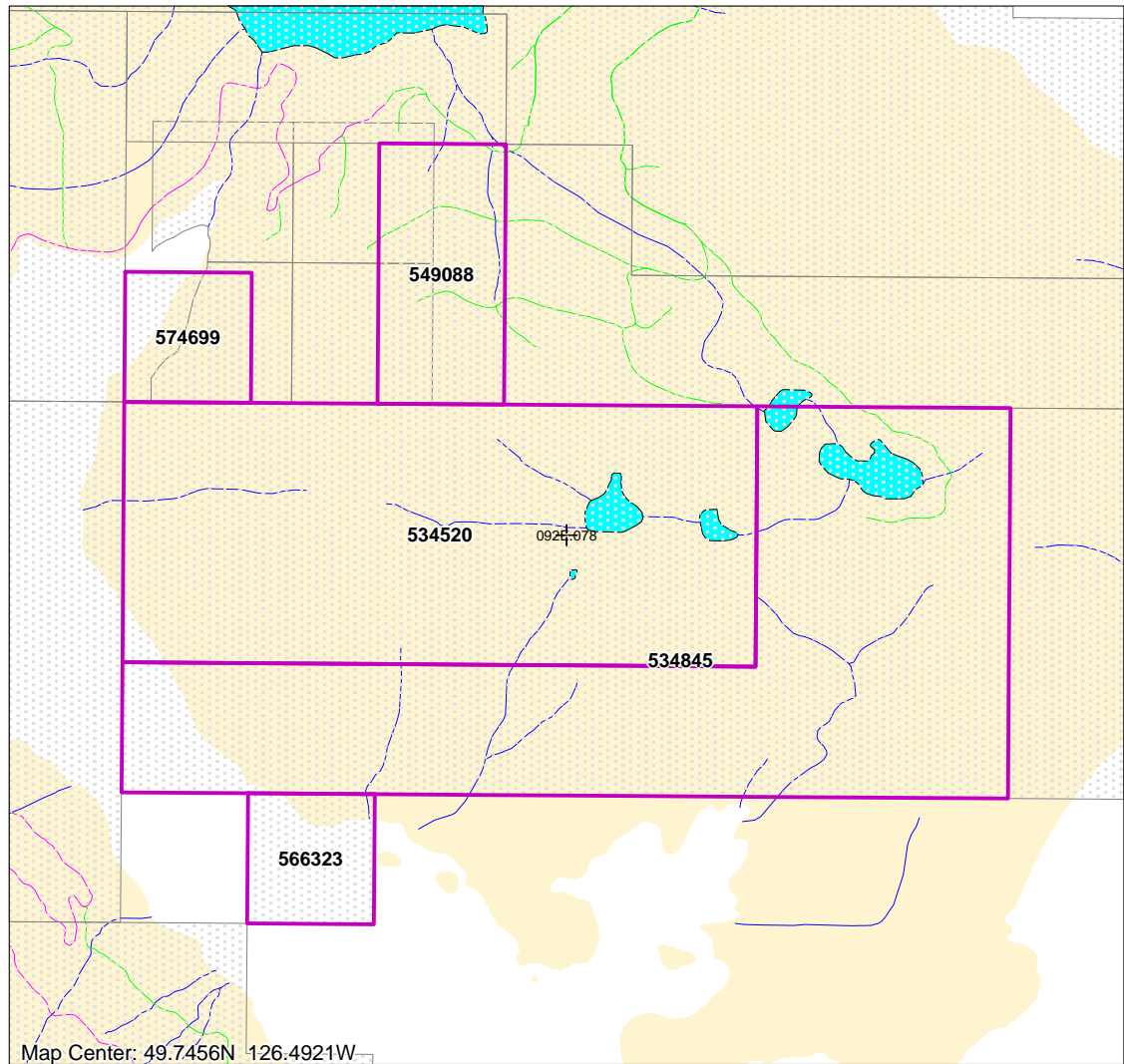
-  Railways 1:20K
- Roads 1:20K**
 -  Gravel Road
 -  Paved Road
 -  Rough Road
-  Lakes 1:20K
-  Rivers 1:20K

Grid Layers

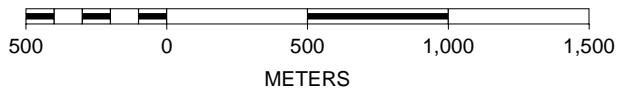
-  Grid 1:20K - labels
-  Grid 1:20K - outline

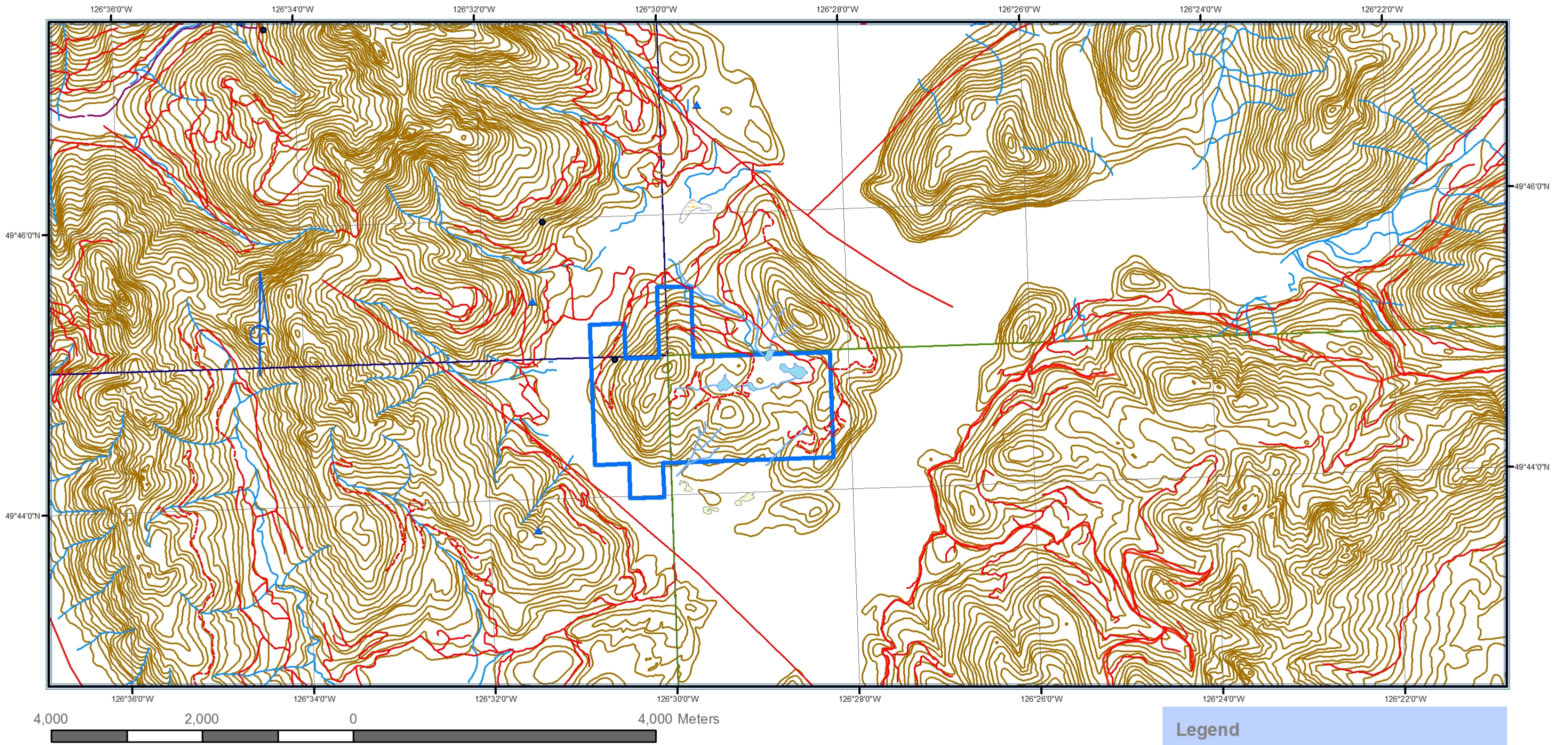
BC Border Layers

-  BC Border 1:50K



SCALE 1 : 26,833



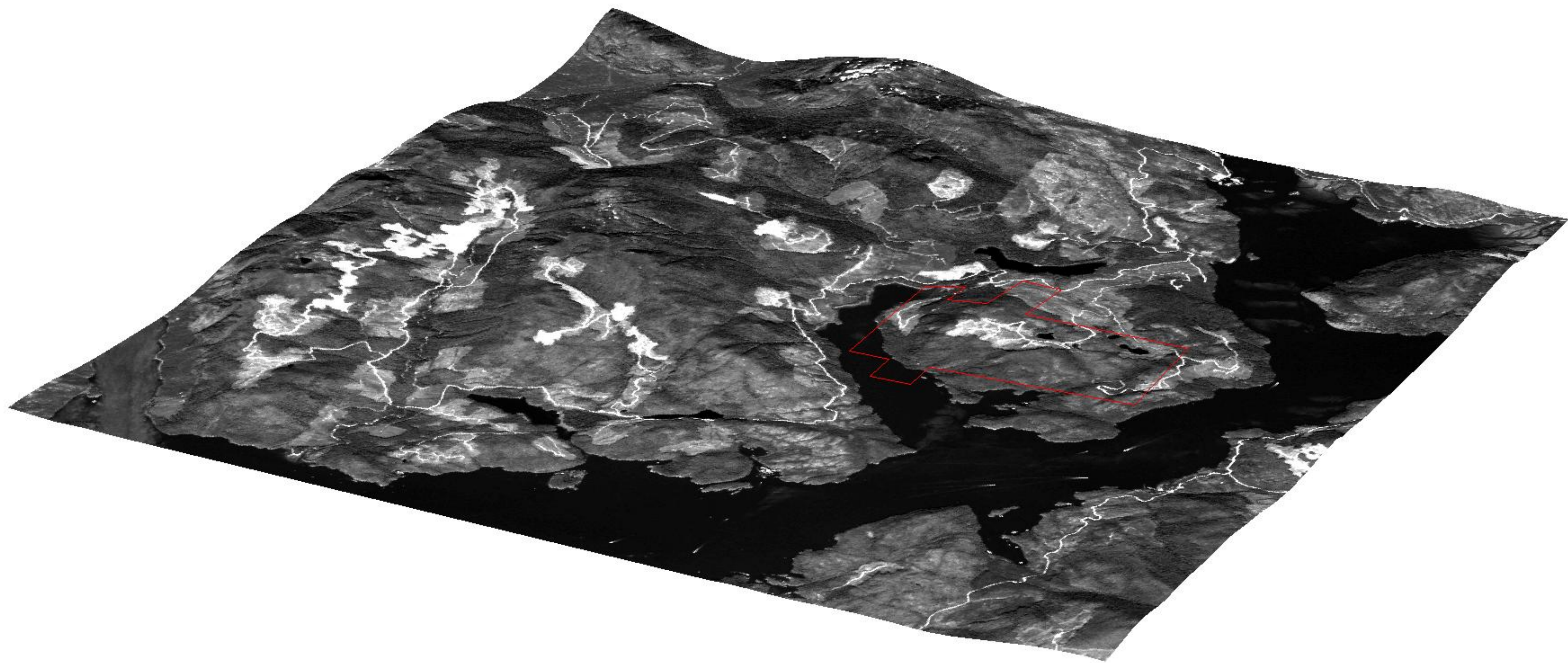


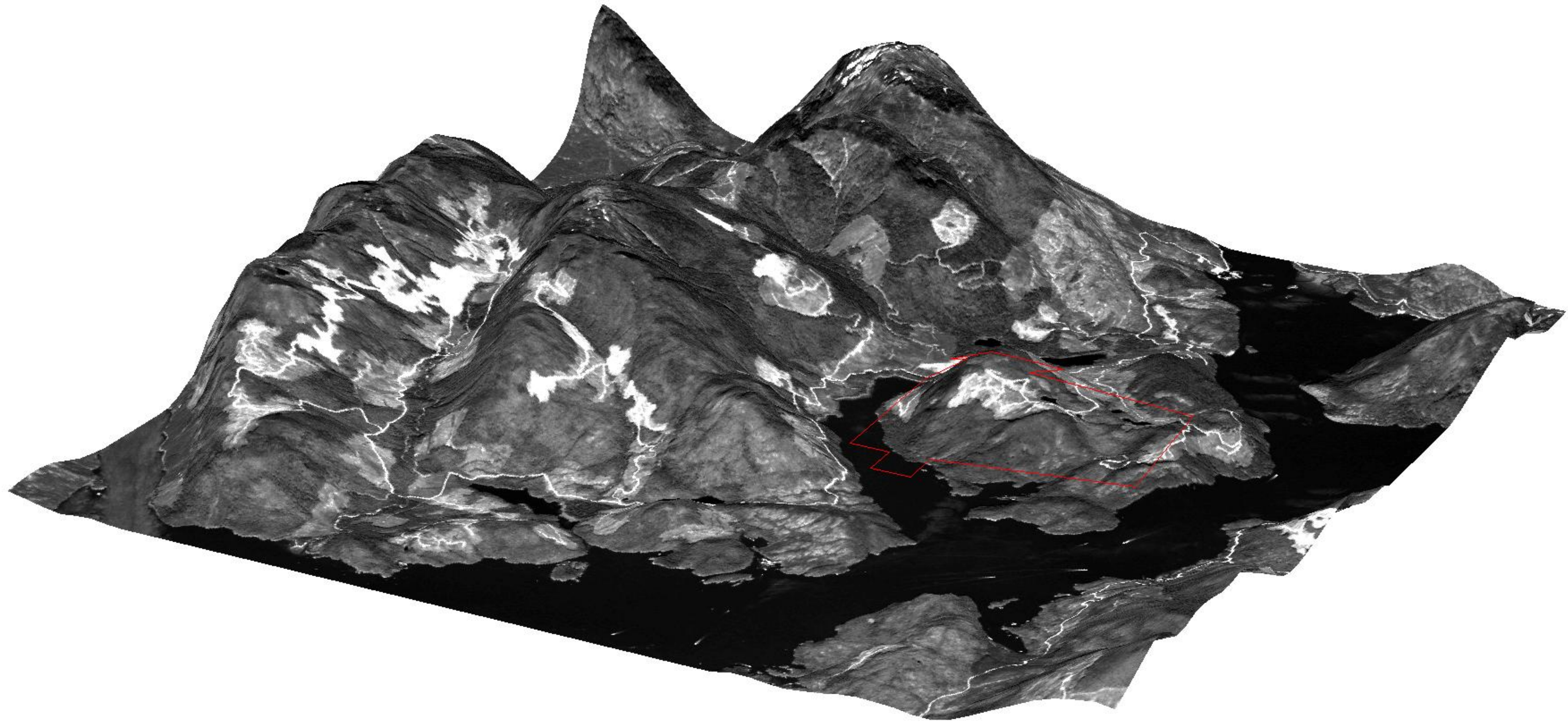
NAD 1983 UTM Projection
1:50,000

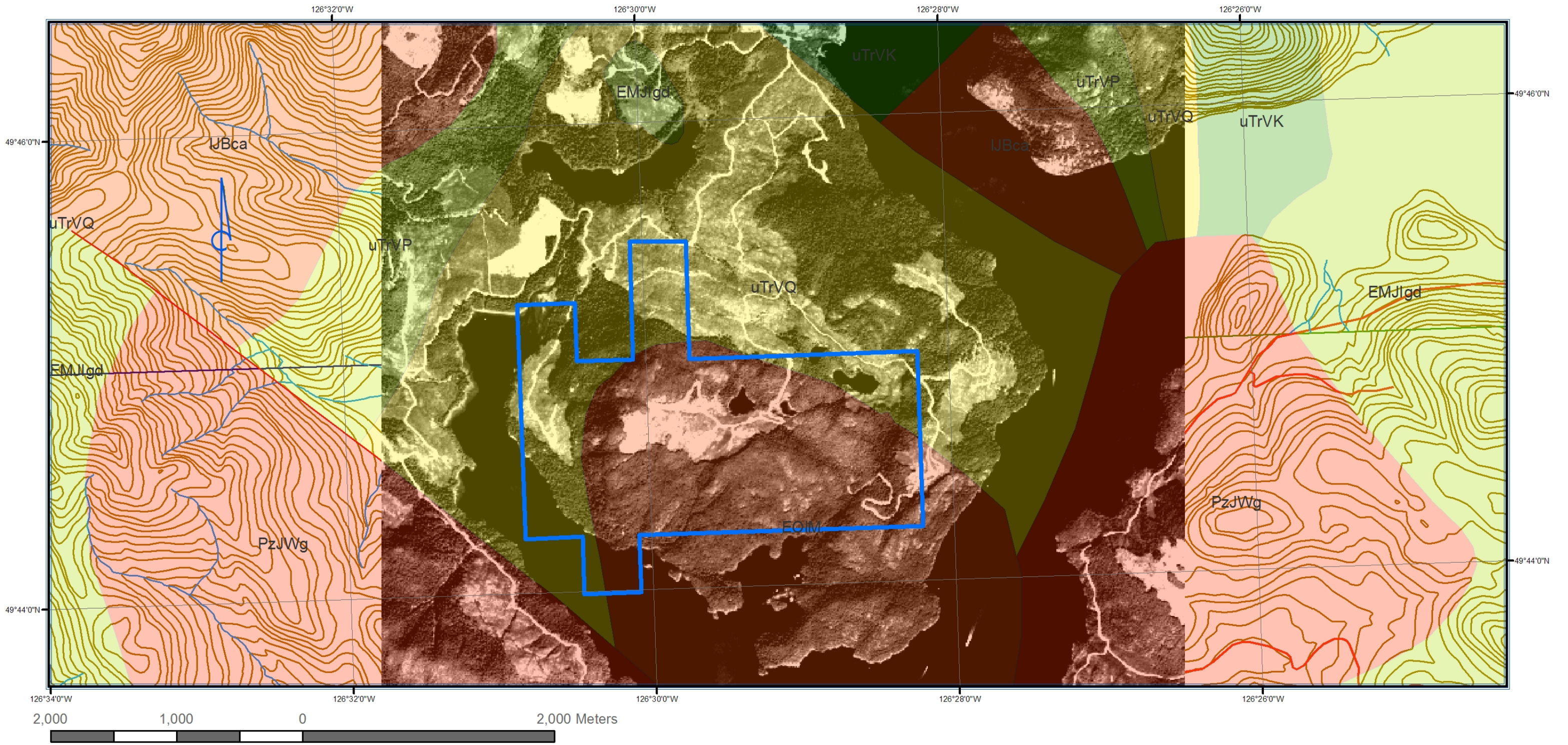
Rock-Con Geoscience Compilation and Remote Sensing Project Tahsis Group Location and Access and General Terrain Tahsis Mineral Properties

Legend

- DRA_LINESP_line**
- <all other values>
- ROAD_CLASS**
- local
- minfile_bc_dd_Project
- ▭ Rock-Con Tahsis Appx Mineral Tenures
- ▲ aris_bc_dd





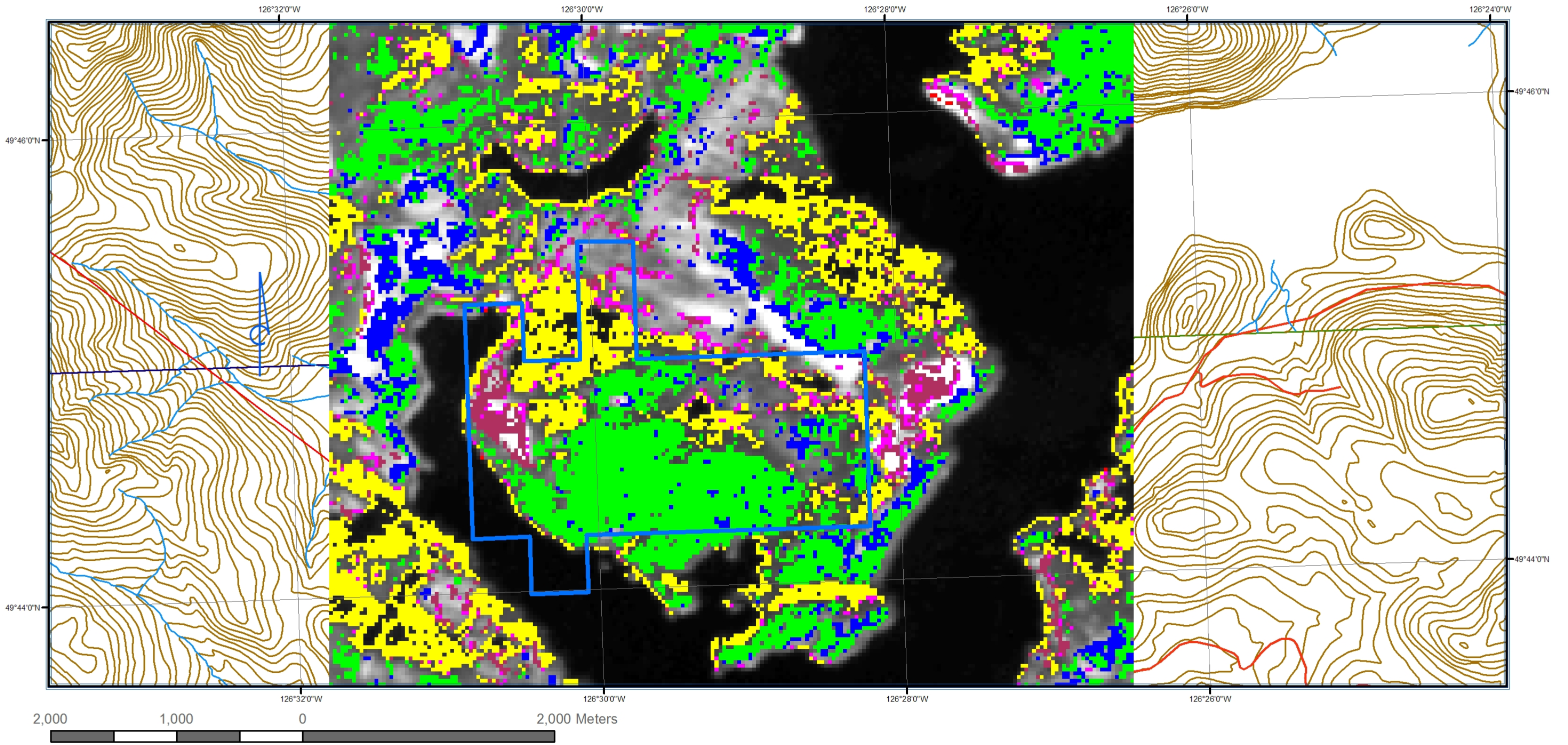


Rock-Con
Geoscience Compilation and Remote Sensing Project
Tahsis Group
Regional Geology Draped on Pan Ortho Data
SWIR/NVIR/Radar/Optical Data Fusion
Tahsis Mineral Properties

Legend

- Rock-Con Tahsis Appx Mineral Tenures
- minfile_bc_dd_Project
- ▲ aris_bc_dd

NAD 1983 UTM Projection
1:30,000



NAD 1983 UTM Projection
1:30,000

Rock-Con
Geoscience Compilation and Remote Sensing Project
Tahsis Group
Alteration Mineral Map
SWIR/NVIR/Radar/Optical Data Fusion
Tahsis Mineral Properties

Legend

- Rock-Con Tahsis Appx Mineral Tenures
- minfile_bc_dd_Project
- ▲ aris_bc_dd

Statement of Qualification

I, **David J. McLelland**, do hereby certify that:

1. I am a Principal in:
Auracle Geospatial Science Inc,
325 Dorset Road Qualicum Beach,
British Columbia, Canada V9K 1H5
2. I am a post graduate student of Earth and Environmental Science and have received a Post Graduate Diploma in applied and theoretical GI Science from Simon Fraser University, and have received a Master of Science in GI Science in Remote Sensing with Distinction from Manchester Metropolitan University.
3. I have completed the B.C.I.T. B.C.Y.C.M. Mineral Exploration program, and Completed the B.C.I.T.1 B.C.Y.C.M. Advanced field School.
4. I am the Project Manager and I am responsible for the collection and management of data and execution of analysis.
5. This report was prepared on behalf of Auracle Geospatial Science Inc. who has been engaged by the Owner, Rock-Con to complete a work program on these properties.
6. I have no material or financial interest in the subject properties or the companies that own them.
7. This report has been prepared in accordance with generally accepted Scientific Principles and is based upon the best information available at the time of preparation. I am not aware of any material fact or material change with respect to the subject matter of the report that is not reflected in the report.

Date: Sept 23 2010
Qualicum Beach, British Columbia



David McLelland

SW BC	Attachment D							
ROC_CON								
2010 Work	Budget Sept 18 2010							
	Tahsis phase 1							
Project Area: Northern Vancouver Island Group				Remote Sensing				
Cost Categories		Type	Descript	Units	Rate	#	Qty	extended
Personnel								
	Project Manager	Est Plan		\$/Day(8hr.)	\$600.00	1	1	\$600.00
	QP			\$/Day(8hr.)	\$650.00	1	0.5	\$325.00
	Field Assistants			\$/Day(8hr.)	\$350.00	1	0	\$0.00
	GIStech			\$/Day(8hr.)	\$275.00	1	1	\$275.00
	Geospatial Analyst			\$/Day(8hr.)	\$600.00	1	1	\$600.00
	Remote Sensing Analyst			\$/Day(8hr.)	\$625.00	1	1	\$625.00
Travel								
	Lodging	R and Board		\$/Day/Person				
	Lodging Short Stay	R and B	QP	\$/Day/Person				
	Meals		travel	\$/Day/Person				
	Vehicle			\$/Kilometre				
	Fuel	Unimog						
	Fares	Ferry						
		Ferry Passenger						
Misc Costs								
	Materials	Flags						
	Supplies							
	Misc.							
Communications								
	Satellite			\$/Week				
	Sat Phone			\$/month				
	Radio			\$/Week				
Field Equipment Rental								
	Unimog			\$/Day				
	Generator			\$/Week				
	Dryer heater			\$/Month				
	ATV			\$/Day				
	Aircraft	J Ranger		\$/Hour				
		Mob & fuel inc		\$/Minute				
		Daily fuel inc		\$/Minute				
		L Ranger						
Tech Equipment Rental								
	Computer			\$/Day		1	0	\$0.00
	CDGPS			\$/Day				
	Gamma Ray Spectrometer			\$/Week				
	SWIR Spectrometer			\$/Week				
Sampling equipment Rental								
	Soil Probe		portable	\$/Week				
	Tips		wet cutti	\$/each				
	Core Tubes	36"	clr vinyl	\$/ per set of 15				
SampleAnalysis								
	Sample cutting			\$/per				
	Sample prep		RC					

	Drying		onsite	\$/week				
	Sample Bags			\$each				
	Microscopy			\$/per				
	Chemical analysis		lithogeo	\$perSample				
	Metallurgical analyses							
	Shipping							
Fuel								
	ATV			\$/Day				
	Probe			\$/Day				
	Heater		dryer	\$Day				
Data Acquisition								
	ASTER							\$0.00
	TRIM							\$0.00
	PanChromatic							
	Air SAR	Rsat						
	Processing	RS			\$450.00	1	0	\$0.00
	Scanning Digital	36"	map	per lin inch	\$0.50		0	\$0.00
	Digitization	processing			\$450.00	1		\$225.00
Mapping and Reporting								
	Mapping							\$240.00
	Reporting	ppt						
	Priniting and copying							\$125.00
	LS Printing							\$250.00
Licences and Permits								
	Exploration Permit							
	Bond							
	WCB	inc						
	Insurances	Equipment						
		Liability						
	ATV	in rental						
Total								\$3,265.00

Plus (HST) applicable taxes

Total work applied for Phase1 Tahsis Group is \$3265.00 reduced to 2650.00 for budget purposes

This work was conducted between September 16th and September 25th 2010 by Auracle Geospatial Science Inc.