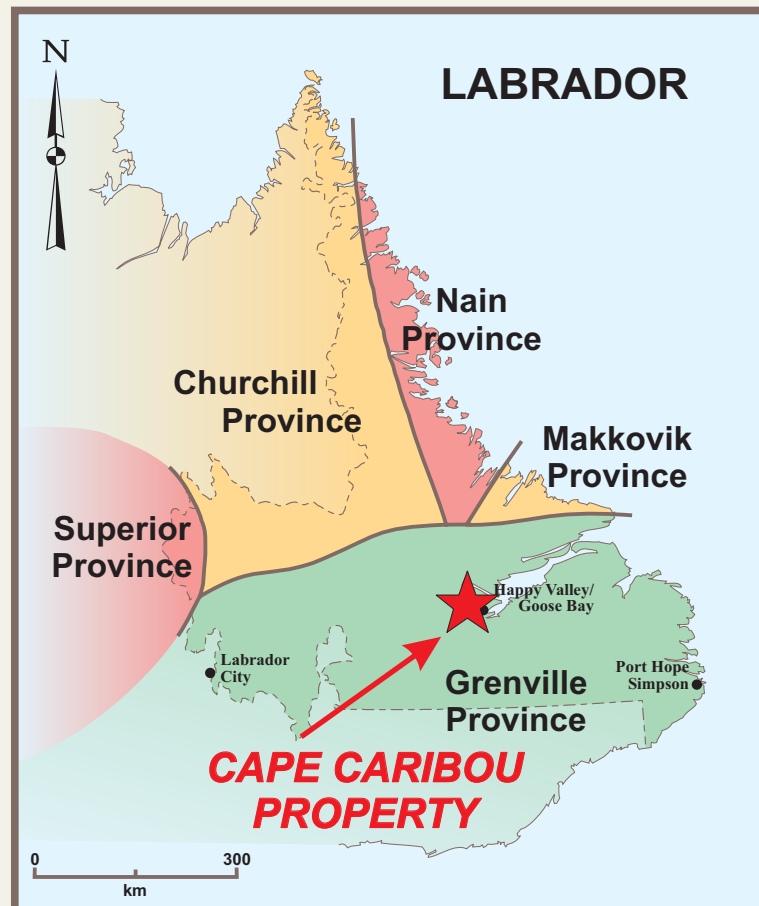


# NEWFOUNDLAND & LABRADOR

## Explore The Opportunities

### Cape Caribou Fe-Ti-V



Map 1. Property location map

The **Cape Caribou Property** consists of 84 claims (Lic. #s 19321M, 19535M, 19775M, 19891M and 19892M) located in central Labrador, approximately 30 Km NW of Happy Valley-Goose Bay. The property straddles Grand Lake Road out of Happy Valley-Goose Bay (Maps 1 and 2, NTS 13F/07, 10).

#### Regional Geology

The property lies within the interior Grenville Province, and contains the southern part of the Cape Caribou River Allochthon (CCRA) and its surrounding rocks (Wardle and Ash, 1986). The CCRA is a layered, lobate, structural slice consisting of a lower unit of mylonitic tonalite-granodiorite gneiss and an upper sequence of metagabbroid-amphibolite and anorthosite referred to as the North West River anorthositic intrusive suite

#### Local Geology

The eastern half of the property is underlain by the Cape Caribou River Allochthon comprising leuconorite, leucotroctolite, leucogabbro and anorthosite. Mafic minerals include olivine, orthopyroxene and varying amounts of magnetite and ilmenite. Layering is commonly present near the contact with the unit immediately to the west where leucogabbroid alternates with anorthosite. Immediately west of this unit and underlying the western half of the property is the North West River anorthosite suite comprising gabbronorite, amphibolite and mafic granulite.

#### Mineralization

Anorthosite in the CCRA is commonly enriched in magnetite which forms pronounced concentrations, both as an intercumulus phase and as layers, near the contact with the North West River Suite to the west. This magnetite-



Plate 1: Magnetite Exposure

mineralized zone follows the crest of a pronounced, positive aeromagnetic anomaly coincident with the contact of the anorthosite and metagabbroids to the west, suggesting that the area may contain larger concentrations of mineralization. There is one historic mineral occurrence on the property, the Goose Bay Fe Showing. However, other than describing the occurrence as minor magnetite concentrations, no detailed information is available for this occurrence. Very little mineral exploration activity has been carried out on this property. The present owners of the property have collected grab samples from bedrock (Map 2 for locations and Plate 1) which have returned significant levels of Fe, Ti and V (Table 1) over several square kms, including up to **78.7 % Fe<sub>2</sub>O<sub>3</sub>, 11.09 % TiO<sub>2</sub> and 0.31 % V**. Levels of Cr, Cu and Zn are also locally elevated (Table 1). The magnetite mineralization occurs as layers and lenses in the anorthosite (Plates 1 and 2).

#### Geophysics

Map 3 shows the regional aeromag, and illustrates the strong positive magnetic anomaly associated with the historic and newly discovered Fe occurrences quite well. The peak in the aeromag ridge occurs just to the west of the mineralization; the road from Goose Bay crosses this ridge just beside the Goose Bay Fe Showing. The aeromag anomaly extends to the south, as far as Goose Bay, and becomes wider, which may indicate that the magnetic source is deeper, and not outcropping.



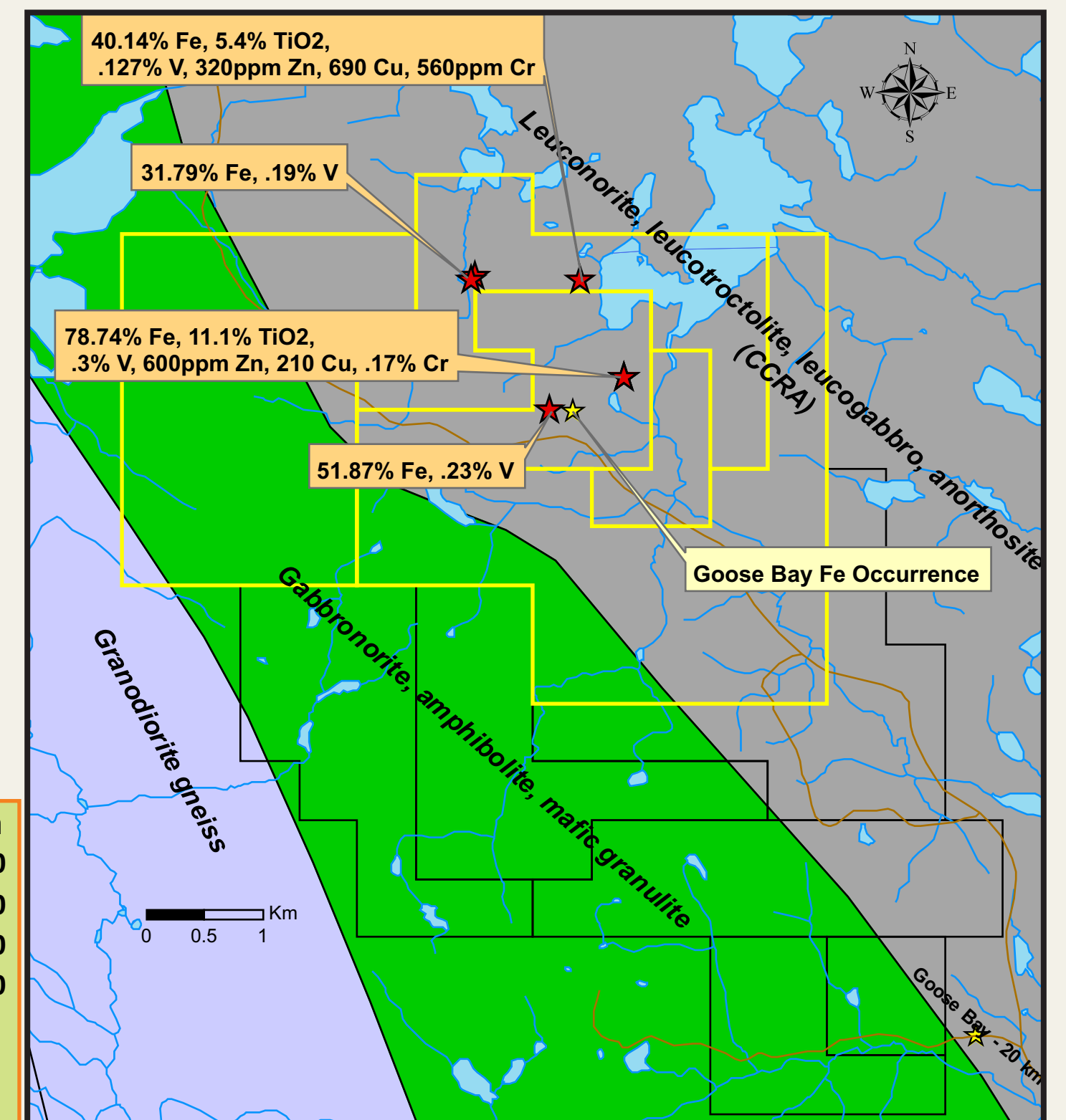
Plate 2: Magnetite Layer

#### Mineralization Model

Work to date and the associated regional aeromagnetic anomaly suggest that this property has favourable potential for significant magmatic concentrations of Fe-Ti-V mineralization.

Sample	Fe <sub>2</sub> O <sub>3</sub> (T)%	TiO <sub>2</sub> %	V ppm	Cr ppm	Cu ppm	Zn ppm
557366	58.22	7.735	2199	940	130	390
557368	78.74	11.09	3092	1700	90	600
557371	40.14	5.44	1277	560	690	320
557372	55.45	8.568	1893	890	210	420
08-005	31.79		1883			
08-006	26.35		1267			
11-002	51.87		2305			

Table 1: Grab Sample Assays



Map 2. Claims and geology map

Source: Mineral Occurrence Database - Geological Survey, Department of Natural Resources  
Website: <http://www.gov.nl.ca/mines&en/geosurvey>

P.H. Davenport, L.W. Nolan, R.W. Wardle, G.J. Stapleton, and G.J. Kilfoil, 1999 *The Geoscience Atlas of Labrador*. Newfoundland Department of Mines and Energy, Geological Survey, Open File NFLD/1305, Version 1.0

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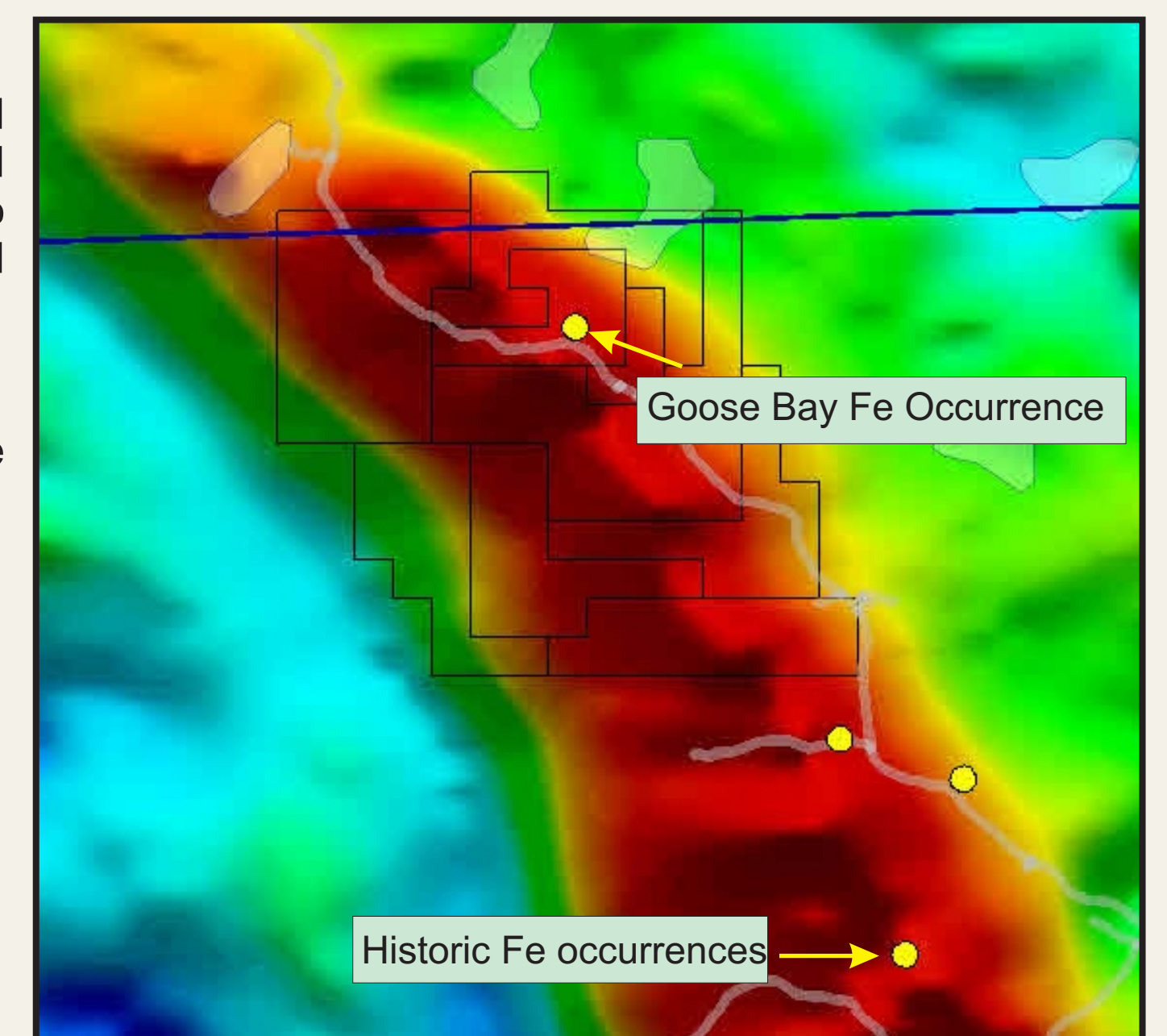
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Map 3. Claims and regional aeromag