



MINFILE NTS 092G - VANCOUVER

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The Vancouver map area covers a large portion of the Coast tectonic belt and is dominated by plutonic rocks of the Tertiary to Jurassic Coast Plutonic Complex. Within the plutonics are numerous volcanic and sedimentary roof pendants of Lower Cretaceous, and older, of the Gambier Group and equivalents. The map area contains 341 recorded occurrences, of which 144 are aggregate pits or quarries.

Exploration targets in the roof pendants are volcanogenic massive sulphides and related veins. The highly productive Britannia-Indian River (**Britannia**, 092GNW003) pendant is a prospective sequence. Mineralized veins and shear zones within the pendants and along the contacts with plutonic rocks are currently receiving attention. The **Ashlu** (092GNW013) deposit contains combined reserves of 89,350 tonnes, grading 8.57 grams per tonne gold and 12.34 grams per tonne silver.

The Coast complex also hosts porphyry copper-molybdenum mineralization; the **Gambier Island** (092GNW025) deposit contains measured reserves of 114 million tonnes grading 0.29 per cent copper and 0.018 per cent molybdenum. The northwest trending Harrison Lake fracture system, with associated vein mineralization in Gambier Group rocks, cuts across the northeast part of the map area.

In the western portion of the map area, on Sechelt Peninsula, pendants of Upper Triassic Vancouver Group limestones and dolomites host skarn-type mineralization. The **Mineral Hill** (092GNW052) deposit contains probable reserves of 291,000 tonnes of wollastonite (up to 50 per cent) and also represents a limestone and garnet source. The **Sechelt Carbonate** (092GNW031) deposit contains measured geological reserves of 3.5 million tonnes of dolomite. In the southern map area, numerous quarrying operations have exploited clay, dimension stone, shale (fireclay at **Sumas Mountain** (092GSE004)) and sandstone. On Vancouver Island, near Nanaimo, the **Wellington** (092GSW048) and **Douglas** (092GSW029) coal seams, in the Upper Cretaceous Nanaimo Group, have supported many mines in the past.

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