

G&G Data Depository: Minerals associated with Byrud emerald and their relative abundance (after Nordrum and Raade, 2006).

From B. Rondeau et al. (2007) Characterization of emeralds from a historical deposit: Byrud (Eidsvoll), Norway, *Gems & Gemology*, Vol. 44, No. 2, pp. 108–122.

Mineral species	Abundance	Description
Albite	Common	Within massive pegmatite, and euhedral crystals in cavities.
Andalusite	Rare	Present in the alum shales.
Apatite	Quite rare	Bluish crystals in small cavities, usually of millimetric size. Largest crystal reported: 6.5 mm long and 8.5 mm in diameter. Also occurs as white aggregates.
Bavenite	Rare	
Beryl	Common	Occurs mainly in cavities and cemented in pegmatites. Some is also found in adjacent parts of the maenaite dykes and alum shales.
Brannerite	Very rare	
Calcite	Very rare	
Diopside	Very rare	
Epidote	Very rare	
Fluorite	Common	Mostly small anhedral, dark lilac specks; rarely pale green aggregates and octahedra up to 5 mm in small cavities.
Galenite	Very rare	
Gersdorffite	Rare	Micro-crystals.
Goethite	Very common	Much of the pegmatite material on the dumps have a thin coating of goethite.
Graphite	Common	Found in the alum shales.
Grossular	Rare	
Gypsum	Common	Occurs in cavities and on walls in the mine.
Illite	Very rare	
Jarosite	Common	Occurs as a yellow powder or coating on sulphide-rich parts of the dykes.
Kyzylykymite-related (Raade et al. 2006)	Very rare	
Laumontite	Quite common	Small, white crystals and fan-shaped crystal aggregates, in small cavities.
Lepidolite 2M ₂	Very rare	
Marcasite	Very rare	
Microcline	Very common	Within massive pegmatite, and euhedral crystals in cavities.
Molybdenite	Rare	
Monazite	Very rare	
Montmorillonite	Very rare	
Muscovite 1M and 2M	Common	Within massive pegmatite and in cavities.
Opal (hyalite)	Rare	Small white coatings.
Orthoclase	Rare	

Phlogopite	Very rare	
Pyrite	Common	Small scattered aggregates and cubes.
Pyrrhotite	Common	Small massive aggregates, especially common in the maenaite dykes.
Quartz	Very common	Within massive pegmatite, and euhedral crystals in cavities.
Rutile ("ilmenorutile- strüverite")	Quite common	Micro crystals and small aggregates.
Siderite	Very rare	
Sphalerite	Very rare	
Sulphur	Rare	Occurs associated with gypsum as a secondary product of sulphides in cavities.
Thorianite	Very rare	
Thorite	Very rare	
Titanite	Very rare	Micro brownish spherical aggregates.
Topaz	Quite common	In the cavities, small white to colourless crystals. Transparent crystals rarely exceed 5 mm. In the massive pegmatite, non-transparent, light greyish yellow crystals up to 5 cm, often perched on quartz and cemented in quartz and microcline.
Tremolite	Rare	
Tourmaline	Rare	
Vesuvianite	Rare	Bundles of elongated, light brown crystals up to 1 cm in length and 1–2 mm in width, in cavities within aggregates of the same mineral.
Wollastonite	Rare	In the alum shales.