

Significant Known Metallic Mineral Occurrences in Maine

Approximate tonnage and grade are listed, if known.¹ Commodities on the 2022 federal Critical Minerals list are shown in **bold print**.

- *<u>Alder Pond</u> 3.4 million tons (MT) massive sulfide, of which 0.8 MT grades 2-3% copper, 9-17% **zinc**, 0.5-1.0% lead, and 3-6 oz/ton silver. Advanced exploration permit issued by DEP to BHP mining in late 1980s for underground decline. BHP did not pursue mining operation. There is a current exploration lease on State Land. (*Lower Enchanted Twp, Somerset Co.*)
- Bald Mountain 33.8 MT total, including 30 MT massive sulfide, 2.4 MT copper-rich supergene zone and 1.4 MT gold-rich gossan cap. Average grade of massive body 1% copper, 1% **zinc**, 0.02 oz/ton gold, 0.4 oz/ton silver. Drilled extensively in 1980s, with over 400 holes. Mining application submitted in 1997 under 1991 rules; withdrawn by applicant, citing low metal prices. (*T12R8 WELS, Aroostook Co.*)
- *<u>Harborside</u> (or Callahan Mine) 0.8 MT of massive sulfide ore mined in 1968-72, averaging 5.5% **zinc**, 1.3% copper, 0.5% lead, and 0.5 oz/ton silver. Mine closed in 1972 according to existing laws and current best practices. Now listed as Superfund site, with State of Maine as one of the responsible parties. (*Brooksville, Hancock Co.*)
- <u>Katahdin Iron Works</u> (or Ore Mountain) 6.4 MT per 100 feet depth (extent unknown); massive iron sulfide with gossan. 44% iron; copper, **nickel**, **cobalt** less than 0.5%. Historical surface mining of gossan in 1800s. (*Katahdin Iron Works Twp, Piscataquis Co.*)
- Ledge Ridge 4 MT massive sulfide, grading 2% **zinc**, 1% copper, 1% lead, 0.02 oz/ton gold, and 0.6 oz/ton silver. (*Parmachenee Twp, Oxford Co.*)
- <u>Maple-Hovey deposits</u> 325 MT, stratabound ore grading 7.2% **manganese** and 17.2% iron. Not a sulfide ore. Extensive investigation by U.S. Bureau of Mines and U.S. Geological Survey in 1950s-60s. (across several townships, eastern Aroostook Co.)
- <u>Pembroke</u> 27 MT massive sulfide, grading 1% **zinc**, 0.4% lead, and 1 oz/ton silver. Historical surface mine for lead in early 1900s at Big Hill. Further exploration, including geophysical surveys and drilling was done in 2007-2008 and in 2021. (*Pembroke, Washington Co.*)
- <u>Pennington Mountain occurrence</u> tonnage and grade unknown. Geophysical exploration and surface sampling by the USGS and Maine Geological Survey identified an area of highly mineralized rock enriched in Nb, Zr, and the **rare earth elements** (REE). (*T15 R6 WELS*)
- <u>Plumbago North</u> Lithium-bearing pegmatite with large spodumene crystals. Preliminary evaluation suggests 11 million U.S. tons with Li₂O content of 4.68%. (*Newry, Oxford Co.*)
- <u>Pickett Mountain deposit</u> Indicated and inferred resource of 5.0 million tons massive sulfide, grading 9.5% **zinc**, 3.8% lead, 1.3% copper, and 3.1 oz/ton silver. There is a current LUPC rezoning application to allow mining. (*T6R6 WELS, Penobscot Co.*)
- *<u>Second Pond</u> (or Blue Hill Mine) 1 MT of massive sulfide ore mined in 1972-1977, averaging 6.9% **zinc** and 0.9% copper with minor lead and silver. Reserves of about 1.4 MT at 8% **zinc** remain at depth. (*Blue Hill, Hancock Co.*)
- <u>Warren</u> 2.6 MT massive sulfide, grading 1.5% **nickel**, 0.7% copper, 0.1% **cobalt**. A mining proposal in the late 1980s was withdrawn after passage of a town ordinance. (*Warren, Knox Co.*)

^{*} Asterisk indicates a deposit partly on State-owned land. Others are privately owned.

¹ Disclaimer: This document contains historical information or estimates from various sources. It is not intended to comply with Canadian National Instrument NI 43-101 disclosure standards for resource or reserve estimates.