

Turnstone Geological Services Limited

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Principal Services & Products

- Mineral Exploration & Property Evaluation, *including*
- Prospecting, Sampling, Drill Supervision and Core Logging.
- Mineralogical and Materials Science Studies, *including*
- Petrography of Rocks & Ores in Transmitted and Reflected Light.
- Microprobe Analytical Techniques.
- Interpretation of Whole-rock, Trace-element and Mineral-chemical Data.
- Research on many Deposit Types and Geological Environments.

Achievements & Resources

- **>100 clients in industry, government and academia, 1985-.**
- **>500 Turnstone reports** completed
- **~4,000 detailed petrographic descriptions.**
- **>4,000 reference samples in searchable catalogues**, plus many more in additional collections, covering many rock and mineral species and deposit types.
- **In-house databases** and other resources, e.g., the **MINLIB Earth-Science Research Bibliography** (85,500 records) and its derivatives, with strengths in many topical geographic & geopolitical themes (>105,000 records in **MINLIB & WORLD**, Jan. 2015).
- **Web site** (2001-) with many features, e.g., >165 linked “Rocks of the Month”
- **Projects on six continents, through ~70 countries.**
- Extensive **fieldwork**, including regional prospecting and other surveys, work on old mine sites, and the boulder find (with Dr. Gerald Harper) that led to Magma Metals’ discovery of the “Thunder Bay North” conduit-hosted, platinum-rich, Ni-Cu-PGE deposit at Current Lake in the Keweenaw Midcontinent Rift in northwestern Ontario.
- **Office and lab facilities** – extensive libraries, reference rock and thin-section collections, petrographic and binocular digital photomicrographic capabilities, magnetic susceptibility and specific gravity measurement, LW/SW UV lamps, metal detectors...

Long-term Specialities

- Characterization of Geological, Metallurgical and other Materials, *including*
- “Rarities”: meteorite classification; fulgurites; geoarchaeology (chert, metals, slags, etc.)
- Geographic strengths: the Americas, Indian subcontinent, Europe, etc
- Photography and photomicrography (petrographic and stereo microscopes).
- Broader studies of local geology and natural history.