

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 & Reflected Light, and Microprobe Analysis
- Interpretation of Whole-rock, Trace-element and Mineral-chemical Data
- Research on many Deposit Types and Geological Environments, including lode, skarn, epithermal and porphyry gold; magmatic nickel-copper-platinum; MVT zinc, etc.

Achievements & Resources

- **>100 clients** in industry, government and academia, 1985-2021 (to date)
- **>500 Turnstone reports** completed, plus numerous publications and presentations
- **4,000 detailed petrographic descriptions**
- **>4,000 reference samples:** collections in searchable catalogues, plus many more in additional collections, covering many rock and mineral species and most deposit types
- **In-house databases** and other resources, e.g., the **MINLIB Earth-Science Research Bibliography** (>90,000 records) and its derivatives, with strengths in many topical geographic & geopolitical themes (>115,000 records in **MINLIB & WORLD**, Jan. 2021).
- **Library of books and journals** containing much of the database source material.
- **Web site** (2001-) with many features, e.g., 235 “Rocks of the Month” (to Jan. 2021)
- **Projects on six continents, through ~70 countries**
- Extensive **fieldwork**, e.g.: regional prospecting and other surveys; old mine sites; the boulder find (with Dr. Gerald Harper) and later work on Magma Metals’ drill discovery of the “Thunder Bay North” conduit-hosted Ni-Cu-Pt-Pd deposit, N.W. Ontario
- **Office and lab facilities** – extensive libraries, reference rock and thin-section suites, petrographic and binocular digital photomicrography (Jenoptik cameras), magnetic susceptibility and specific gravity measurement, LW/SW UV lamps, metal detectors

Long-term Activities

- Petrography & ore mineralogy in transmitted and reflected light
- Characterization of Geological, Metallurgical and other Materials, *including*
- “Rarities”: meteorite classification; fulgurites; geoarchaeology (chert, metals, slags, etc.)
- Geographic strengths: the Americas, Indian subcontinent, Europe, and more
- Photography & photomicrography
- Broad studies of local geology and natural history
- Research, writing and editing based on all the above resources
- Lectures technical and popular, teaching, and (2015 on) co-organizer of the Kawartha Region Earth Sciences, Engineering and Metallurgy network (KREEM, >40 talks to date)