

SGS MINERALS SERVICES LAKEFIELD FACILITY

WIDE RANGE OF MINERALS CAPABILITIES AVAILABLE IN LAKEFIELD, CANADA

LAKEFIELD SITE HISTORY AND OVERVIEW

LAKEFIELD, ONTARIO, CANADA

SGS Minerals Services' Lakefield site has been providing metallurgical testing and analytical services to the mining industry for over 65 years. From its humble beginnings during World War II as a small group of research scientists and engineers, SGS Minerals Services' Lakefield site has grown into the international industry leader in metallurgical testing supported by the highest quality analytical, mineralogical and environmental services. The impressive range of services offered at the Lakefield site is the result of continued demand from the industry and has earned it a reputation as the world's leading provider of bankable metallurgical services.

The array of technical services available at our Lakefield site includes:

- Geochemical analysis
- Metallurgical services
- Mineralogy
- Diamond exploration
- Environmental sustainability

GEOCHEMICAL ANALYSIS

The geochemical analytical capabilities at the Lakefield facility can address all types of material from exploration, metallurgical process samples to umpire analysis. With a wide range of equipment, expertise and ISO/IEC 17025 accreditation, we provide quality, rapid-turnaround analyses targeting a wide variety of elements in many sample matrices for specific registered tests. Below is a broad outline of the geochemical analytical services available.

- Exploration support
- Laboratory analysis of major, trace,

ultratrace elements and compounds

- On-site labs
- Commercial transaction support
- Environmental analysis
- Industry standard practices and quality

METALLURGICAL SERVICES

Our facility in Lakefield offers a range of value-added solutions, which reduce risk, enhance value and maximise returns at each step of the minerals value chain. Services range from scoping studies to complex flowsheet design, pilot demonstration plants and optimization of processes for recovery of metals. Our range of metallurgical services includes mineral processing, hydrometallurgy, geommetallurgy, in-plant services and design engineering. With a unique coverage of the minerals value chain, SGS Minerals Services is the leading supplier of innovative, technologically-advanced metallurgical services.

MINERALOGY

Our Advanced Mineralogy Facility in Lakefield is equipped with a wide variety of tools including reflected and transmitted light microscopes, X-ray diffractometer, QEMSCAN™, Scanning Electron Microscope and the CLEMEX optical image analysis system. Run by professional staff with longstanding experience, data produced by the Lakefield AMF is monitored by a comprehensive quality control program. We act as your expert technical resource to facilitate the success of your mineral program, whether it be:

- EXPLOMIN™
- High Definition Mineralogy
- Mineralogical identification
- Petrographic analysis and textural studies
- Process mineralogy
- Environmental mineralogy
- Mineral particle sizing and deportment
- Mineral separation facilities

At our Lakefield AMF, we support your exploration and mining efforts as a strategic partner and an independent advisor.

DIAMOND EXPLORATION

SGS Minerals Services provides high quality bankable exploration to evaluation-stage services to the international diamond exploration community. Our Lakefield facility offers caustic fusion, diamond recovery minibulk plants, diamond grading and classification. Related services include electron microprobe analysis of diamond indicator minerals and associated data analysis. Bulk sample processing is done by 1t/hr or 10t/hr dense media separation plants, followed by diamond recovery by grease tabling and SORTEX™. SGS meets all Kimberley Process protocols for the shipping of diamond-bearing materials.

ENVIRONMENTAL SUSTAINABILITY

Whether you are concerned with early characterization and incident prevention or more advanced remediation phase, SGS is your independent technical partner. SGS' experts are available at the Lakefield facility to provide Acid Rock Drainage (ARD) testing, cyanide recycling and destruction, water treatment services, enviromet, analytical testing and microbiology services. We have the technical expertise to provide effective mitigating strategies and innovative, practical solutions that reduce the environmental impact of your operations.



LET SGS PARTNER WITH YOU

SGS' Lakefield facility forms an integral part of an extensive global network with local knowledge and unrivalled experience in virtually every industry, covering the entire supply chain from raw materials to final consumption. Our metallurgical testing, chemical analysis and laboratory outsourcing activities have earned the respect of the global minerals industry. While the needs of the industry continue to evolve, and the range of services provided have continued to grow, we have never deviated from our commitment to providing the latest technical expertise and highest quality of bankable metallurgical testing to the international mining industry.

CONTACT INFORMATION

Email us at minerals@sgs.com
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WHEN YOU NEED TO BE SURE

