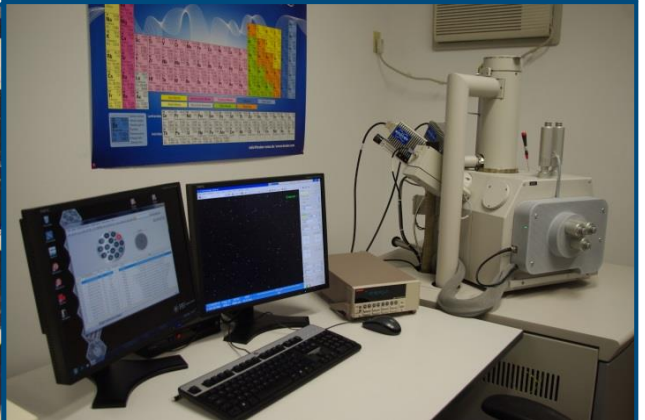
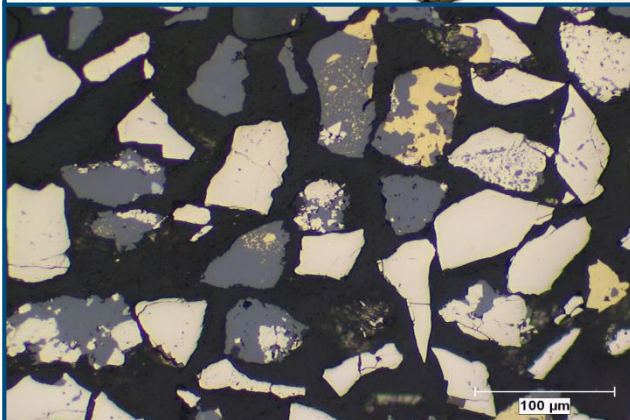




Metallurgy

Mineralogy Services - Kamloops





ALS Metallurgy - Kamloops

ALS Metallurgy Kamloops is part of the ALS Group, a global leader in analytical laboratory and testing services. ALS Metallurgy provides a variety of test services which include: bench scale flotation, gravity separation, cyanidation, magnetic separation, chemical and fire assaying, comminution, pilot plant programs and mineralogy.

Mineralogy Services

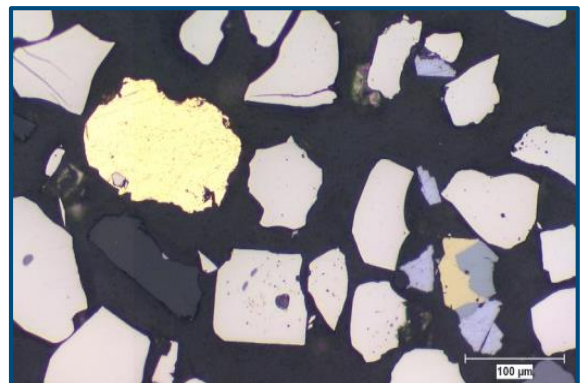
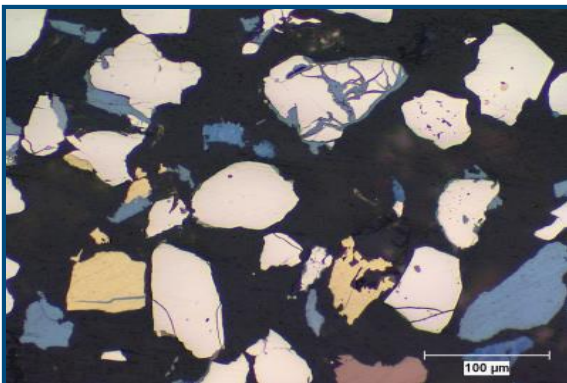
Our mineralogy department provides high quality mineralogical information that can be beneficial throughout the life cycle of a mineral deposit. Our mineralogy services include optical modal analysis and automated mineralogy via ADIS sparse mineral search, QEMSCAN® (PMA, BMA and TMS) and X-Ray Diffraction. ALS Metallurgy provides value added information to our mineralogy reports, which may include target mineral sizing data, mineral texture and liberation analyses, field scan mapping and photomicrographs.

Optical Manual Modal Analysis

Optical manual modal analysis provides information regarding the composition and fragmentation characteristics (liberation and association) of the sulphide minerals in samples. The samples are generally sized using standard screens and a cyclosizer, and often grouped into five to six fractions for mineralogical assessment.

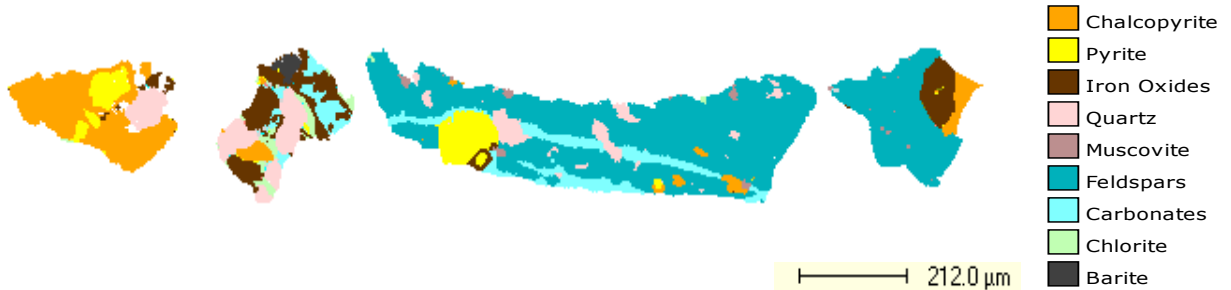
ADIS Sparse Mineral Search

Automated Digital, ADIS, Imaging System, is typically used to search for gold on a polished grain mount. This analysis can be performed on sized or unsized samples and provides details in terms of liberation, association and grain size of target metals or minerals.



Particle Mineral Analysis (PMA)

Particle Mineral Analysis provides mineral composition (including non-sulphide gangue), elemental mineral department and mineral fragmentation characteristics (liberation and association). This analysis is normally performed on each fraction of sized samples, typically four to five size fractions per sample.

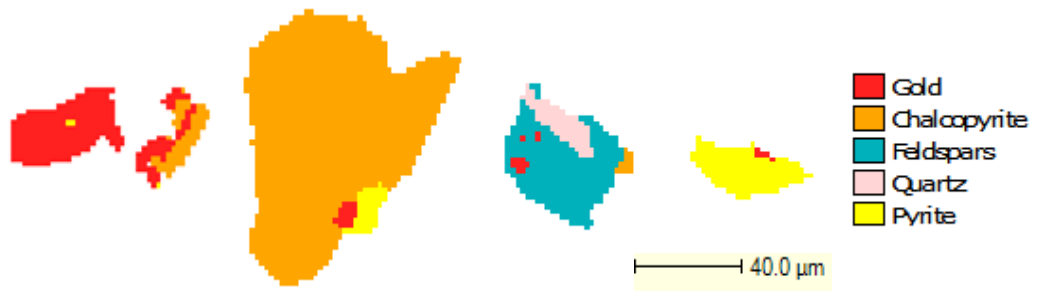


Bulk Mineral Analysis (BMA)

Bulk Mineral Analysis is a one dimension line scan using QEMSCAN® that provides mineral composition and elemental mineral department. This low cost analysis can be performed on pulverized, sized and unsized samples. ALS Metallurgy can also provide an estimate of the liberation and association of the minerals of interest using our BMAL protocol. This analysis is recommended for laboratory ground samples to evaluate variability as part of a geometallurgy program.

Trace Mineral Search (TMS)

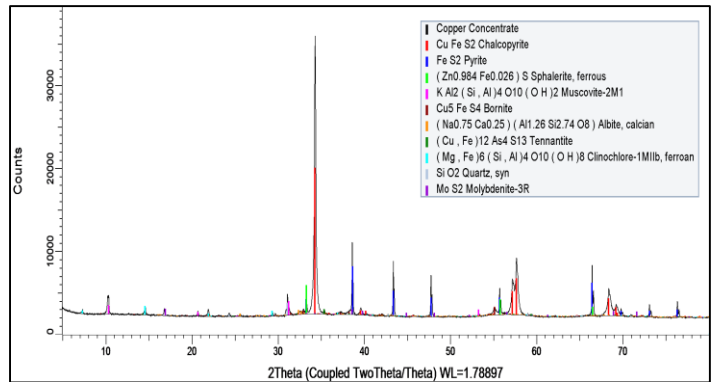
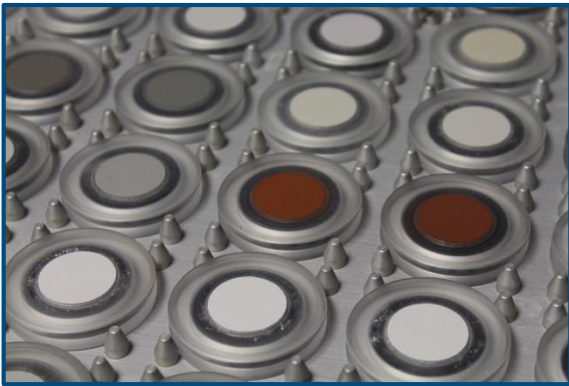
Trace mineral search is used for searching specific trace minerals including precious metals, penalty minerals and other minerals of interest. This analysis provides the mineral liberation, association and grain sizes of the target minerals.





X-Ray Diffraction Analysis (XRD)

XRD analysis using the Rietveld refinement method provides semi-quantitative information regarding the crystalline mineral content in samples. This type of analysis is effective for determination of bulk mineral assemblages. XRD is especially useful for identifying fine grained phases, which are difficult to identify by other methods such as optical microscopy or QEMSCAN®. This analysis is performed on powdered samples.



Why Choose ALS Kamloops Mineralogy Services?

- High quality mineralogy data, presented in clear summarized formats
- Thorough verification of the data
- Quick turnaround time
- Analyses that specifically support metallurgical programs
- The right experience to solve complex mineral processing problems

Contact Us

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