



*Linking  
Mineralogy  
and  
Metallurgy*

## Capability Statement

PMC Limited is an integrated mineralogy & mineral processing laboratory specializing in providing service to assist mining companies in linking the ore body mineral characteristics with practical operational data to enhance the mineral processing of the ore. This is accomplished through ore characterisation, and liberation determinations linked to mineral processing test work such as flotation or gravity concentration. PMC focuses on providing quality analyses through its commitment to dedication, innovation, and experience.

## Expertise

PMC Ltd. utilizes a holistic approach when addressing mineralogical / metallurgical investigations having the training and ability to incorporate the use of traditional mineralogical methods and approaches with advanced modern equipment to provide accurate and relevant data for engineers. Our strength in Mineral Processing is amplified through the use of Mineralogy and the wealth of experience and diversity of people and equipment.



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## Mineralogy:

- Scanning Electron Microscopy (SEM)
- Qualitative process mineralogical analysis
- Quantitative mineralogical analysis using TIMA & AMICS
- Automated Mineral liberation studies using TIMA & AMICS
- Automated Precious Metal Searches using Oxford, TIMA, & AMICS
- Powder X-ray diffraction
- Stereoscopic microscopy
- Ore microscopy
- Petrography
- Predictive metallurgy
- Losses of recovery/grade
- Gold deportment studies

## Flotation:

- Reagent scheme development
- Locked cycle tests
- Kinetic testing
- Hydro Flotation
- Coarse Particle Flotation
- Column Flotation

## Cyanidation:

- Bottle Roll
- Geomet Quick Test
- Electrowinning

## Gravity Concentration:

- Heavy liquid separation
- GRG testing
- Table Concentration (Superpanner, Mozley, Wilfley)
- Magstream technology
- Hydro-separator concentration

## Size Analysis:

- Cyclosizing

## Comminution:

- Grind curve calibration
- Mineralogy-Calibrated Grinding (MCG)
- Bond Ball Testwork

## Magnetic Separation:

- Frantz Magnetic Separations
- Davis Tube Separations