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## SERVICES

### ROCKS & AGGREGATE

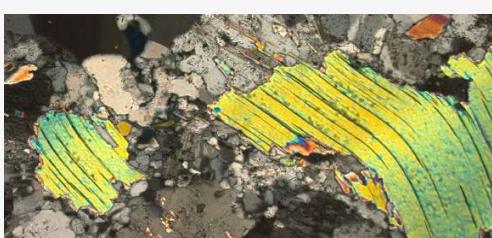
- *Rock type classification*
- *Description of paragenetic sequences of rock-forming and trace minerals, along with their modal percentages*
- *Rock texture and structure, including grain size, distribution, porosity, etc.*
- *Description of microstructures and mineral reactions*
- *Rock use as concrete aggregate advice*

### CONCRETE PETROGRAPHY

- *Identification of the binder*
- *classify the aggregate/sand type, crack/microcrack patterns,*
- *Identifying secondary deposits and deterioration mechanisms, including Alkali-Silica Reaction (ASR), Delayed Ettringite Formation (DEF), Sulphate & Acid Attack, etc.*
- *Fire damage*

### ADDITIONAL SERVICES

- *Field Mapping and Sampling*
- *Rock & Soil Logging (AS2617)*
- *XRF/XRD Analysis*
- *Thin section preparation*
- *Electron microscopy assistance*



## CAPABILITY STATEMENT

**Consultant:** Olga Baruleva BSc MSc (Geology), MPhil

**Business:** Petroglica (independent petrographic consulting)  
ABN:34320468561

**Location:** Canberra, Australia (offering worldwide service)

Independent petrographic consultant specialising in rock, concrete, and aggregate assessments across Australia, with rapid turnaround and expert geological insight.

### OUR CLIENTS

- Civil & geotechnical engineering consultancies
- Construction materials labs,
- Construction and post-construction monitoring
- Concrete producers,
- Quarries, and aggregate suppliers
- Councils, state agencies
- Exploration & Mining companies
- Researchers & Forensic investigations

### DELIVERABLES

- Concise petrographic reports suitable for engineering documentation
- Standard Petrographic Report on a Single Rock Type
- Secondary Mineral Content
- Graphic supplementary materials, including annotated high-magnification photomicrographs
- Practical conclusions linked to engineering material use

### SERVICE MODEL

- Independent consultant or confidential subcontractor
- Flexible scopes: single samples to large investigations
- Practical turnaround times and responsive communication

### COVERING STANDARDS

ASTM C856	ASTM C295	Q188
AS1141.26	AS4964	ASTM C1721
AS1141.65	AS1726	RMS T226
ASTM D4992		ASTM C457

### TURNAROUND

	Thin sections supplied by the client	We prepare thin sections
1-3 samples	Up to 5 business days	15-20 business days
3-10 samples	Up to 10 business days	20-25 business days
>10 samples	>10 business days	>25 business days

### PRICES

From 300 AUD per sample/thin section, add 150 AUD for one thin section preparation (if required)