

Brock

Petrographic Thin-Sectioning Lab

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The Petrographic Thin-Sectioning Laboratory, Department of Earth Sciences offers a well established service for the production of thin section slides.

Processing of thin sections involves the skilled manipulation of material bonded to glass to produce large 5 x 7.5cm or small 2.5 x 4.5cm thin sections of 30µm in thickness.

Thin sections are intended for studies with the microscope under bright field and polarized transmitted light to determine the composition, textural and/or structural relationships of minerals in rock, unlithified sediment, sediment or concrete cores, archaeological material and ceramics. Samples, if unlithified, are dried, impregnated with resin and then processed into thin sections for the client.

Our clients can also request for polished thin-sections which are used primarily in the observation of microstructures in reflective light. The polished thin-sections are prepared in routine fashion using an automatic polisher, starting with coarse to intermediate polishing using diamond abrasives and finishing with polishing alumina.



In the field

Extract

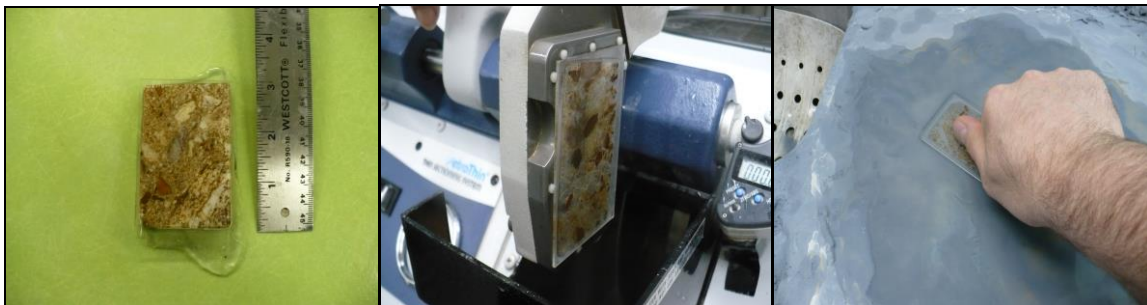
Kubiena



Impregnated sample

Cutting

Lap wheel



Mounted Sample

Cut and Grind

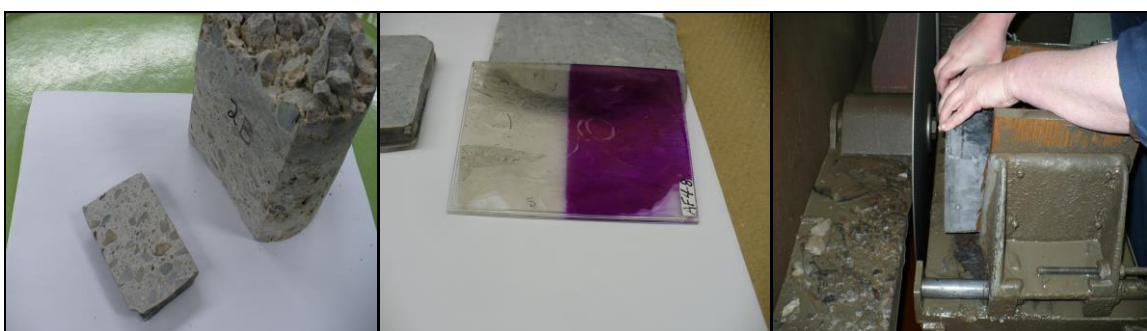
Final Hand Grind



30 µm

Cover Slip

Thin Section



Concrete Core

Staining

Large Slab Saw



Petro-Thin

PM 2A Polisher

Servocut-M250

Current prices

- Slide from an unlithified sediment of soil sample: \$130.00
- Large Rock Thin Section 5 x 7.5cm \$ 50.00
- Standard Rock Thin Section 2.5cm x 4.5cm \$ 20.00
- Large Polished Thin Section: 5 x 7.5cm \$ 80.00
- Standard Polished Thin Section: 2.5cm x 4.5cm \$ 39.00
- Double Polished for Fluid Inclusions 2.5cm x 4.5cm \$ 60.00
- Slide from wood or other archaeological material \$130.00
- Staining add to above prices Large \$ 5.00
Small \$ 4.00

Provided Descriptions and Interpretations

- Single thin section descriptions: \$ 100.00
- Single descriptions & interpretations: \$ 300.00

Supplies

- Kubiena Tins 75 x 55 x 40 mm including lids: \$ 5.00

Prices are in subject to change due to cost of chemicals
With large number of samples individual prices are subject to a slight reduction
HST not included to current prices