

## XRD Service Rate (UNSW internal)

(2018)

Never Stand Still

Mark Wainwright Analytical Centre

Solid State and Elemental Analysis Unit

Item	XRD Consulting Services	Rate (\$/sample)	Additional (\$/sample)	Notes
1	General Phase Identification (Phase numbers are less than 6)	\$90		sample quantity >10 grams
2	General Phase Identification (Phase numbers are less than 6)	\$90		sample quantity 1-5 grams
3	General Phase Identification (Phase numbers are less than 6)	\$60/hour		sample quantity < 0.5 gram (capillary tube)
4	Clay and Rocks Phase Identification	\$120	\$25 (crushing required)	Elemental analysis result is pre-requirement
5	Quantitative analysis (Rietveld refinement)	\$180	\$60/hour if sample preparation required	Elemental analysis result is pre-requirement; sample quantity >10 grams
6	Quantitative analysis with provided scan and XRF result	\$90/hour		

- Note:**
1. Samples have to be grounded to fine powders, Quantity of samples should be > 10 grams; Additional cost may be applied for preparation;
  2. Quality analysis (Phase ID): trace limit < 0.5wt%;
  3. Phase identification bases on ICDD database (the database is updated annually); Semi-quantitative information would be free of charge if RIR value is available in the database, No accuracy can be provided;
  4. XRF elemental analysis is available in Analytical Centre, UNSW.
  5. Quantitative analysis accuracy ~< 4wt% for major phases (Rietveld refinement);
  6. Turnover time: Phase ID 5 working days; Quantitative analysis 10 working days; Client will be informed in advance when the Lab is too busy to meet the deadline;
  7. Samples will not be kept; Please notify Lab staff if return is required;
  8. Please contact staff if client has any special requirement.

**Contact:** Dr Yu Wang  
 Phone: 61-2-93854669; Email: [yu.wang@unsw.edu.au](mailto:yu.wang@unsw.edu.au)  
 Mark Wainwright Analytical Centre, UNSW  
 M69 Chemical Science Building, 2 High Street, Sydney, 2052 Australia