

Geraldton Laboratory Schedule of Services

*Charge per
Sample*

Sample Preparation

PR001 **Sorting and Drying of Sample**

Sample is dried in client packaging or in aluminium trays

\$1.75

PR002a **Splitting**

Samples are split using a riffle splitter

\$2.50

PR002b **Splitting**

Samples are split using a rotary sample divider

\$2.75

PR003 **Crushing to nominal 10mm**

Sample is crushed with an Essa JC1000 Jaw Crusher

\$3.00

PR004 **Pulverising**

Pulverised to 1.5kg using Essa LM-2P mill

\$3.50

X-Ray Fluorescence Analysis

XRF001 **XRF Silicate Fusion**

The sample is fused with a lithium metaborate/ tetraborate flux to form a glass bead. Fusion techniques give an accurate analysis by minimising sample matrix effects. Elements may be reported as the element or oxide.

Preparation of the glass disc

\$9.00

Analysis

\$5.00

XRF002 **XRF Fusion Iron Ore Analysis**

Spectrolab specialises in the fusion analysis of iron ore and offers a standard suite of elements at a fixed price per analysis

Fe	SiO ₂	Mn	CaO	Al ₂ O ₃	P	S	MgO	As
K ₂ O	Ni	V	TiO ₂	Pb	Zn	Cu	Cr	Na

Preparation of the glass disc and analysis

\$13.00

Loss on Ignition

LOI001 **Loss on Ignition**

Loss on Ignition using a conventional furnace at a single temperature. Sample is dried at 105 °C then ignited at 1000 °C (other temperatures can be used if requested)

\$7.00

Standard Iron Ore Analysis

For routine customers, Spectrolab will provide a standard analysis suite for iron ore analysis. This comprises PR001-004, XRF002 and LOI001

\$25.00

Spectrolab can also provide analysis of sample pulps if required as per above deleting PR001-004.

\$17.00

Magnetic Susceptibility Analysis

MS001 *Magnetic Susceptibility*

Magnetic Susceptibility Meter (MagnaSat) is used on pulverised sample residues to determine the percent magnetic composition. Predominately used for magnetite but can be used for any magnetic material.

\$7.00

Davis Tube Recovery Test Work

DT001 *Davis Tube Analysis*

Davis Tube Recovery Analysis is a form of magnetic separation using a Davis Tube. Separation gives a percent mass recovery of magnetic material and the recovered magnetic and non-magnetic portions can be analysed for chemical composition.

\$TBA

Spectrolab are very pro-active in working with our clients to achieve a great working relationship. If you have any other analysis needs we would be happy to discuss your options with you.