

Appendix H: Davis Tube Recovery Preparation and Assay procedure for Mt Lindsay Project

Preparation

All listed bulk residues will already be dry and crushed to -6mm.

Homogenise via mat rolling then separate a subsample of approx 150g for head assay and DTR.

DTR pulverizing and assaying, Perth laboratory

Pulverising

- 1) Pulverise the sample for 90 seconds in a ring pulveriser
- 2) Wet screen the sample at 75 microns and dry the products
- 3) Record the oversize weights
- 4) If less than 20g of oversize is produced then a 150g sample must be re-split and pulverised for a shorter time
- 5) Dry and regrind the oversize for 4 seconds for every 5 gms of sample oversize
- 6) Repeat the screening (dry) until less than 5gm is above 75 microns
- 7) Filter press total sample, dry and homogenise
- 8) Using a 3 decimal place balance, subsample the pulverised product to give a 20g sample for DTR and use the remaining pulp for head grade assay

This procedure will give a nominal P80 sizing of 75 micron

Davis Tube Recovery method

- Pulveriser Bowl 150ml
- Stroke Frequency 60/minute
- Stroke length – 38mm
- Magnetic field strength – 3000 gauss
- Tube Angle – 45 degrees
- Tube Diameter – 25mm
- Water flow rate – 540ml/min
- Washing time 15 minutes

Head Assay by ME-XRF12, B-ICP69 & ME-ICP61+Sn for following elements:

- 1) ME-XRF12 suite: LOI %, Si %, Al %, Fe %, Mg %, Mn %, Mo %, Ca %, Cl %, Na %, K %, Ti %, S %, Sn %, W %, P %, As ppm, Ba ppm, Co ppm, Cr ppm, Cu ppm, Pb ppm, U ppm, V ppm, and Zn ppm
- 2) B-ICP69 for boron
- 3) ME-ICP61+Sn suite: Ag ppm, As ppm, Be ppm, Bi ppm, Cu ppm, Ni ppm, S %, Sb ppm, Sn ppm, and W ppm by 4 acid digest with ICPAES finish and any over limit results rerun by ore grade methods.

Davis Tube concentrate assay by ME-XRF12 for following elements:

LOI %, Si %, Al %, Fe %, Mg %, Mn %, Mo %, Ca %, Cl %, Na %, K %, Ti %, S %, Sn %, W %, P %, As ppm, Ba ppm, Co ppm, Cr ppm, Cu ppm, Ni ppm, Pb ppm, U ppm, V ppm, and Zn ppm