

Table i: Gold Recovery via various process options

Process	Au Recovery (%)	NaCN (kg/t)
Whole ore leach, 24hrs, 1kg/t NaCN	46.5	2.1
Whole ore leach, 72 hrs, 3kg/t NaCN	83.5	5.7
CVD concentration	87.6	N/A
CVD concentration , flotation of CVD tails ¹	96.9	N/A
CVD concentration, regrind and flotation of CVD tails ¹	97.8	N/A
CVD concentrate leach , 24 hrs, 1kg/t NaCN	47.6	0.7
CVD concentrate leach, 72 hrs, 3kg/t NaCN	74.6	1.3
CVD concentrate leach, regrind, 24 hrs, 1kg/t NaCN	43.5	0.8
CVD/flotation concentrate leach, 24 hrs, 1kg/t NaCN ²	52.6	0.9
CVD/flotation concentrate leach, 72 hrs, 3kg/t NaCN ²	82.5	1.6
CVD tails leach, 24 hrs, 1kg/t NaCN	7.9	0.7
CVD/flotation tails leach, 24 hrs. 1kg/t NaCN	2.0	0.4
CVD/regrind – flotation tails leach, 24 hrs, 1kg/t NaCN	1.0	0.5

Note 1: Recoveries shown here are those of CVD concentrate and cleaned flotation concentrate. Flotation cleaner tails is assumed to report to process tails. Mass yield for proportionate NaCN consumption calculation is taken as CVD concentrate and cleaned flotation concentrate.

Note 2: It is assumed here that cleaned flotation concentrate would perform similarly to CVD concentrate when leached.

Note: *Overall recovery and sodium cyanide consumption for any chosen process route can be calculated by summing the individual stage recoveries, e.g. the recovery via CVD, flotation of CVD tail, =72-hour leach of combined CVD and flotation concentrates and leach of floatation tails would be 84.5% (82.5%+2.0%) for NaCN consumption of 2.0kg/t.*