

SC2 also responded well to similar flotation treatment used for the other three composite samples. For a flotation feed of grind size 100% -150 μm Tests SC2/F1 to F3 showed that a high concentration and extraction similar to that observed in testing SC1 was obtained in the initial tin rougher flotation stages. This was even more pronounced when collector PTAA was used in the deslimed flotation feed of Test SC2/F2 as shown in Fig. 7 of the plots of recovery and grade versus flotation time for Tests SC2/F1 to F4. The same plots also showed that a very poor tin flotation performance was exhibited in using S-3903 as the tin collector. It may be that a different set of flotation conditions are required for collector S-3903 to be effectively used in tin flotation of SC2.

Tin distribution in the -7 μm slime of a grind size of 100% -150 μm averaged 0.5% in Tests SC2/F2 to F4. This was the lowest figure for the four composite samples tested and also an indication of the relatively coarse liberation characteristics of the tin minerals present in SC2.