

019995

To J. Purkis/F. Gay cc. B. Cron Assay Lab
From P. Clarke B. Voisey Met Lab
Date August 19, 1980
Subject ZONE 2 TONNAGE FACTORS

Further to the July 21, 1980 memo on tonnage factors, a recent statistical analysis of rock type densities with grade in Zone 2 has called for a modification to earlier estimates.

As yet figures are available for Zone 2 only. The new tonnage factors for > 4.5% Pb + Zn Zone 2 are:

<u>Rock</u>	<u>Tonnage Factor</u>	<u>SDT/Cu. Yd.</u>
2A	2.64	
2BCD	2.67	
2EC	2.92	
2EF, 2G, 2H	3.21	

These figures agree quite well with an independent study made from production statistics by F. Gay.



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PC/mm

Note: Zone 1 2A is generally not as graphitic as the Zone 2 variety.

The above figures are statistical averages developed from S.G. determinations on individual crushed samples, mathematically combined into bench averages and assigned a particular rock type based on predominant lithology.

Some work on bulk S.G.'s (i.e. uncrushed core) is planned which may give us data to suggest that S.G.'s are slightly lower than the above in some instances.

While there is most definitely a variation from the average corresponding with grade, this has not, as yet, been quantitatively defined.

In order to calibrate tonnage factor against daily mill tonnage throughput, we would need to go over some past production figures with someone from one of the mill departments.



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