

Mine Reconciliation as a Driver of Improvement: Best Practice in Reporting and Analysis

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ABSTRACT

Mine reconciliation is now recognised as a vital standard periodic process at most mine sites, with most systematically preparing and delivering monthly reconciliation reports. But every site tends to report and analyse their reconciliations slightly differently. The authors have been exposed to many versions of monthly reconciliation reports, ranging from 2 pages to 80 pages per month. Producing an 80-page reconciliation report is time-consuming for your valuable personnel, particularly when it is derived from numerous Excel spreadsheets.

But what happens next? Should not there be learnings and follow ups from the results? Why waste the effort in preparing the data for reporting when it can be used to better inform forecasts and deliver improved reconciliation going forward?

Using best practice reconciliation principles, this paper will provide guidance for standardised reporting analysis and more importantly, explain how we can go beyond standard reconciliation reporting to identify sources for improvement.

Through a case study, the authors explore best practice in reconciliation report and analysis for (a) reconciliation factors, and (b) compliance to plan. The authors will demonstrate that by using a rolling factor across time, improvements to the individual data sources can be easily identified. Using the methods and learnings from geostatistics, the authors will demonstrate that different types of plots can be used to provide different types of outlier detection and prompt follow-up. With a systemised focus on improvement, reporting and analysis can be streamlined to enable more time to be spent on improvement and less on manual data manipulation and report generation.