



Five samples of coal and corresponding slags were collected for analysis and CQMS validation testing. One sample represented poor slag flow, while the other four represented good slag flow conditions.

The following conclusions were reached:

- Analytical results indicated no identifiable bias in the sampling. However, there was a wide range of clay minerals present and some of the clay minerals had an extremely variable composition.
- The CQMS results indicate very subtle difference between the coal and slag when "poor slag flow" was observed, and the coal and slag when "good slag flow" was observed.
- All of the slags were depleted in sodium and magnesium and enriched in aluminum and silicon with respect to the coal mineral analysis.
- The reason for the "poor slag flow" is not evident on bulk analysis of the coal ash and slag composition.
- CQMS calculations and indices indicated the potential for the "poor slag flow". However, CQMS calculations and indices indicated the potential for poor slag flow when "good slag flow" was observed.