



# Mount Polley Mining Corporation

an Imperial Metals company

November 10, 2015

## Quesnel Lake Water Clarity at Lake Overturn - Fall 2015



Last year Mount Polley Mining Corporation (MPMC) distributed the flyer *Quesnel Lake Cloudiness at Lake Overturn* on November 14, 2014, to inform the community of the expected changes in Quesnel Lake with seasonal lake overturn. At that time, some material from the breach had not settled and remained suspended in a cloudy layer in the bottom waters of the West Arm below the thermocline. When lake overturn happened in mid-November, the cloudy water mixed with the surface water and the lake appeared turbid, as area residents will have observed. This was predicted by computer simulation modelling of the lake which was shown in last year's flyer. As predicted by the same modelling, the lake started to clear by spring of 2015 and has remained clear throughout the water column (from the surface to the bottom of the lake). Normal seasonal overturn of Quesnel Lake will happen soon and we want to provide the following update on what we know about water quality conditions, which differ considerably from this time last year.

- Consistent with the predictions from our physical limnology model of Quesnel Lake, the lake is not expected to turn cloudy after this year's overturn.
- Mount Polley's environmental department continues to monitor turbidity in the lake water column. While last year, the lake was cloudy below the thermocline, this year the lake is not cloudy below the thermocline as shown in the two depth profiles on the next page.
- Mount Polley's third party physical limnologists, TetraTech EBA, advised that the current velocities at lake overturn will not be enough to resuspend the sediments on the bottom. Given the direct measurements and the predicted water velocities associated with lake overturn, we expect that the lake will not become cloudy this year as it did last year.
- Mount Polley staff will continue to monitor until winter conditions on the lake prevent doing so.

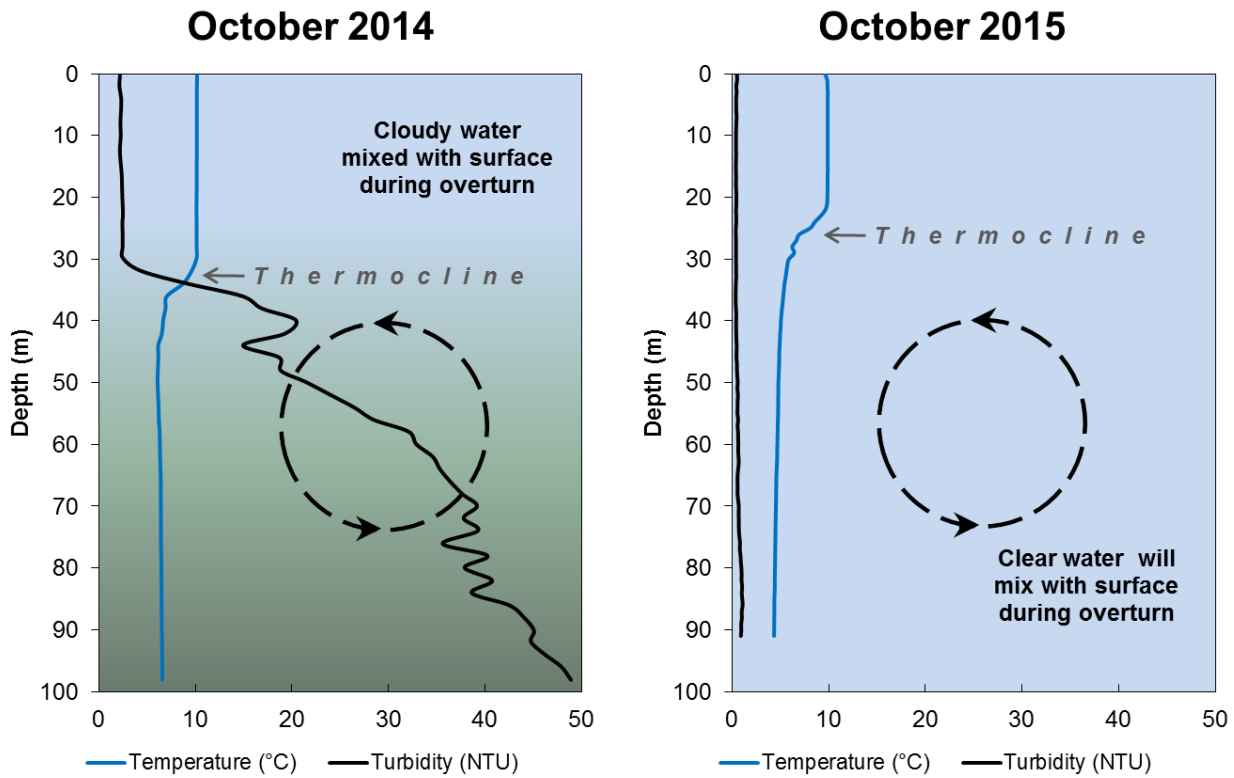


Figure 1. Depth profiles taken at QUL-18 on October 29, 2014 (left) and October 28, 2015 (right)

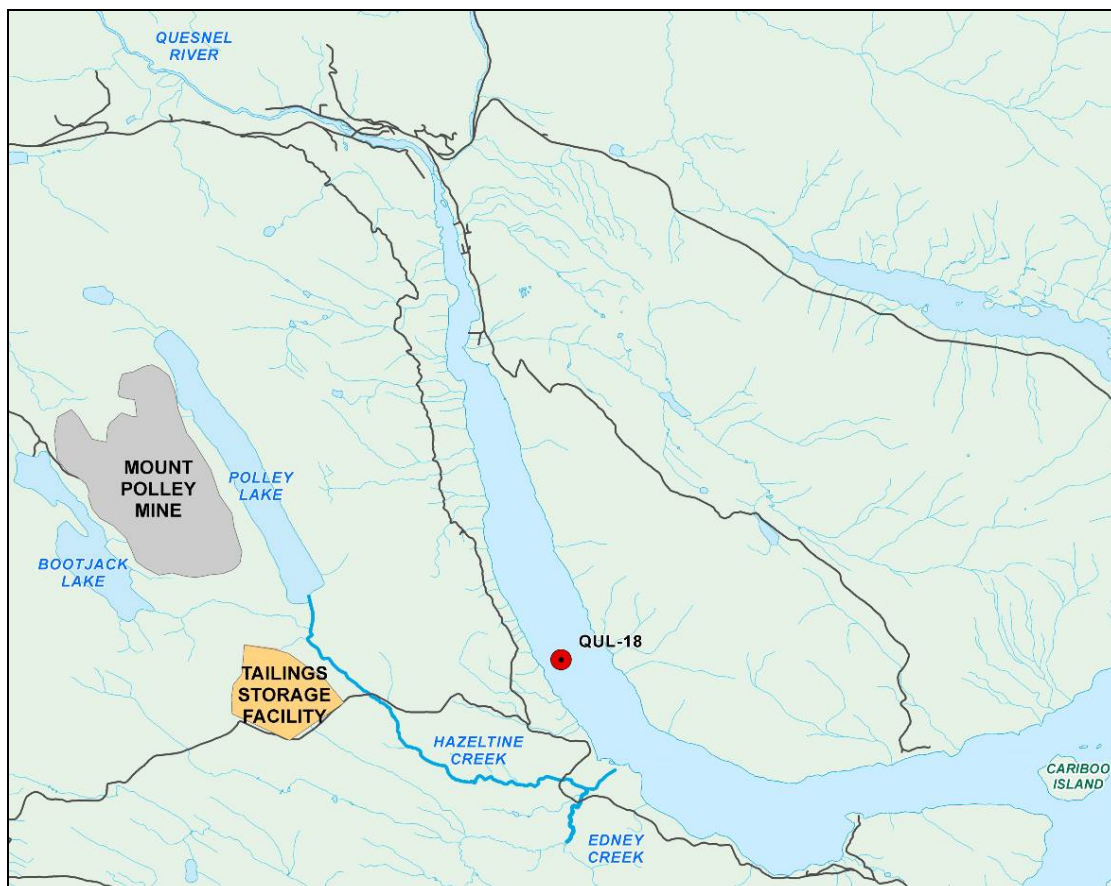


Figure 2. Location of QUL-18 in Quesnel Lake