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Ministry of Environment
 Mining Operations Environmental Protection
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WEEKLY POST-TSF BREACH REPORT – WEEK OF JANUARY 21 – 27, 2015

Water Management and TSF Works

Polley Lake Dewatering	<p>Polley Lake ice elevation = 921.81 m (January 27th)</p> <p>Water levels are currently within the typical range. Polley Lake is frozen and all pumping infrastructure was removed in late November. Ice elevation surveys are being taken weekly.</p>
TSF Water Management	<p>All water from the TSF water collection system is currently transferred to the Springer Pit via the Central Collection Sump. Water flow from the breach location is currently being pumped to the Upstream 1 sump, and then to the Central Collection Sump via the TSF Settling Pond.</p> <p>Refer to Figure 1 for a map of the Tailings Storage Facility (TSF) area and associated works.</p> <p>No breaches of the water management system containing water flow from the TSF occurred this week.</p>
TSF Construction	<p>The amendment to permit M-200 approving repair of the TSF breach to manage 2015 freshet was received from the Ministry of Mines on December 17th. An update on work being completed under this approval is as follows:</p> <ul style="list-style-type: none"> • Foundation preparation and material placement for Perimeter Embankment buttressing is ongoing. • Extension of the seepage collection drains through the Phase 1 footprint is ongoing. • Foundation preparation and material placement immediately downstream of the cut-off wall is ongoing. • Foundation Transition blanket material placement for the cut-off wall has commenced. • Cut-off Wall Aggregate material placement for the cut-off wall has commenced. • Compacted Rockfill material placement for the cut-off wall has commenced. • Upstream Fill material placement for the cut-off wall has commenced.

Project components that have been completed under this approval are:

- Bulk excavation of the North and South Abutments (the embankments to the north and south of the breach).
- Construction of seepage collection drains in the cut-off wall foundation footprint.
- Foundation preparation for the cut-off wall.
- Foundation Filter blanket material placement for the cut-off wall.

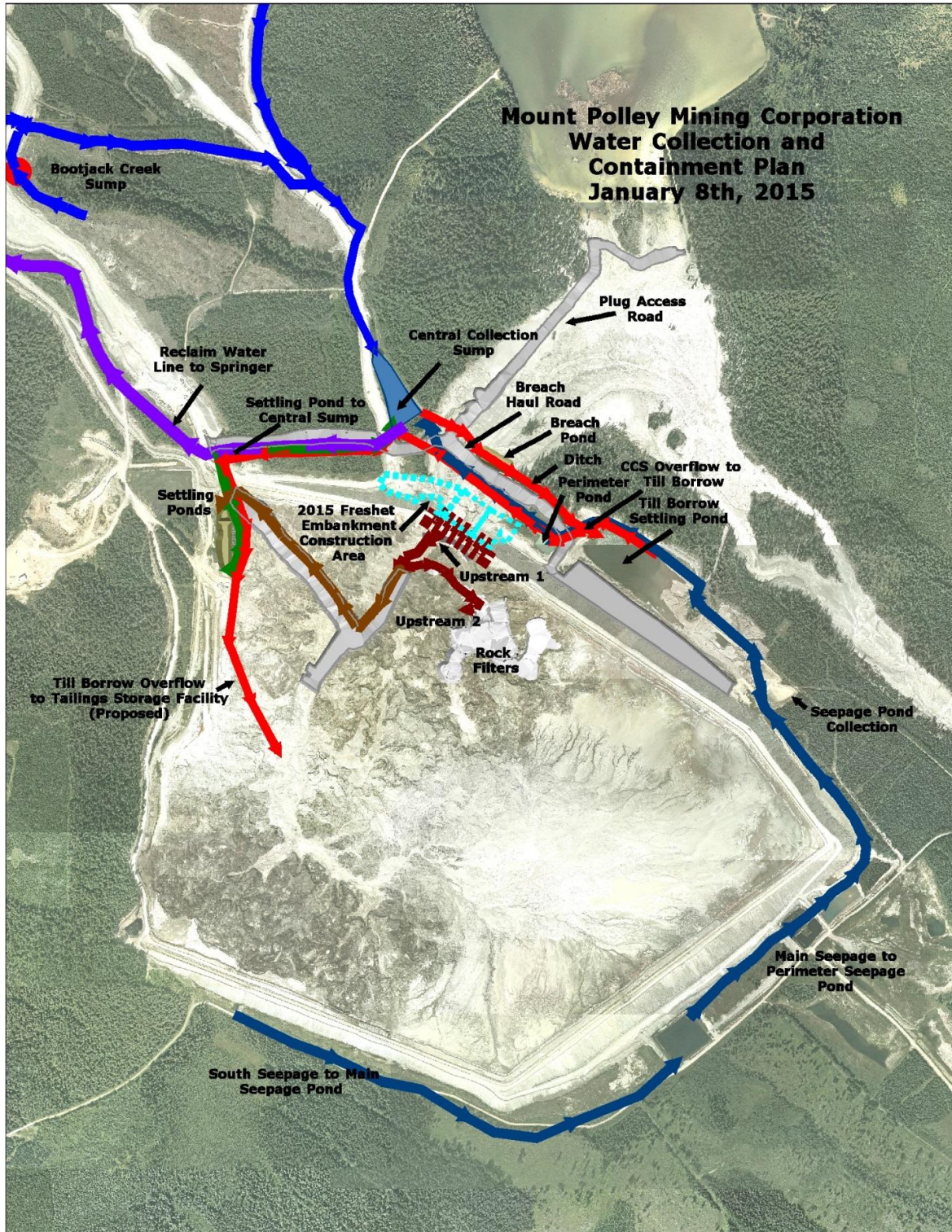


Figure 1. Tailings Storage Facility construction works and water management systems

Sediment and Erosion Control Measures

<p>Silt Curtain</p>	<p>The new Hazeltine Creek outflow channel from the sedimentation ponds into Quesnel Lake bypasses the silt curtain which is attached to the log boom at the mouth of Hazeltine Creek. A second silt curtain to be installed at the mouth of the new Hazeltine Creek channel has been ordered. The existing curtain is in good condition and will remain in place for the time being.</p>
<p>Sediment Control Works (Lower Hazeltine)</p>	<p>Construction work and sorting of coarse woody debris at lower Edney Creek continues. The crossing to access the other side of the creek for sediment and erosion control purposes is 90% complete. The Edney Creek fish barrier is in place and continues to function. Edney Creek is flowing into the sedimentation ponds.</p> <p>Figure 2 shows a turbidity time series graph comparing the turbidity in Hazeltine Creek at the Ditch Road bridge and at the outflow of the Lower Hazeltine Creek sedimentation ponds.</p>
<p>Sediment Control Works (Upper Hazeltine)</p>	<p>The Polley Lake outflow channel in Upper Hazeltine Creek continues to be excavated. This week 2,300 tonnes of tailings were excavated and returned to the TSF and 11,797 tonnes of till was excavated stockpiled for reclamation purposes. 15,915 tonnes of construction material was hauled to the Hazeltine Creek area.</p> <p>The final drawings for the Polley Lake outlet structure design have been submitted to the Ministry of Forests, Lands and Natural Resource Operations and have been approved. The conceptual rehabilitation plans for Upper Hazeltine Creek have been provided to Ministry of Environment for review.</p> <p>Installation of sediment and erosion control measures and collection of live willow stakes and wattles on site by a local First Nations crew continued this week. These willows will be planted in the spring for erosion control and restoration purposes.</p> <p>Trained environmental field workers are monitoring all creek restoration work.</p>

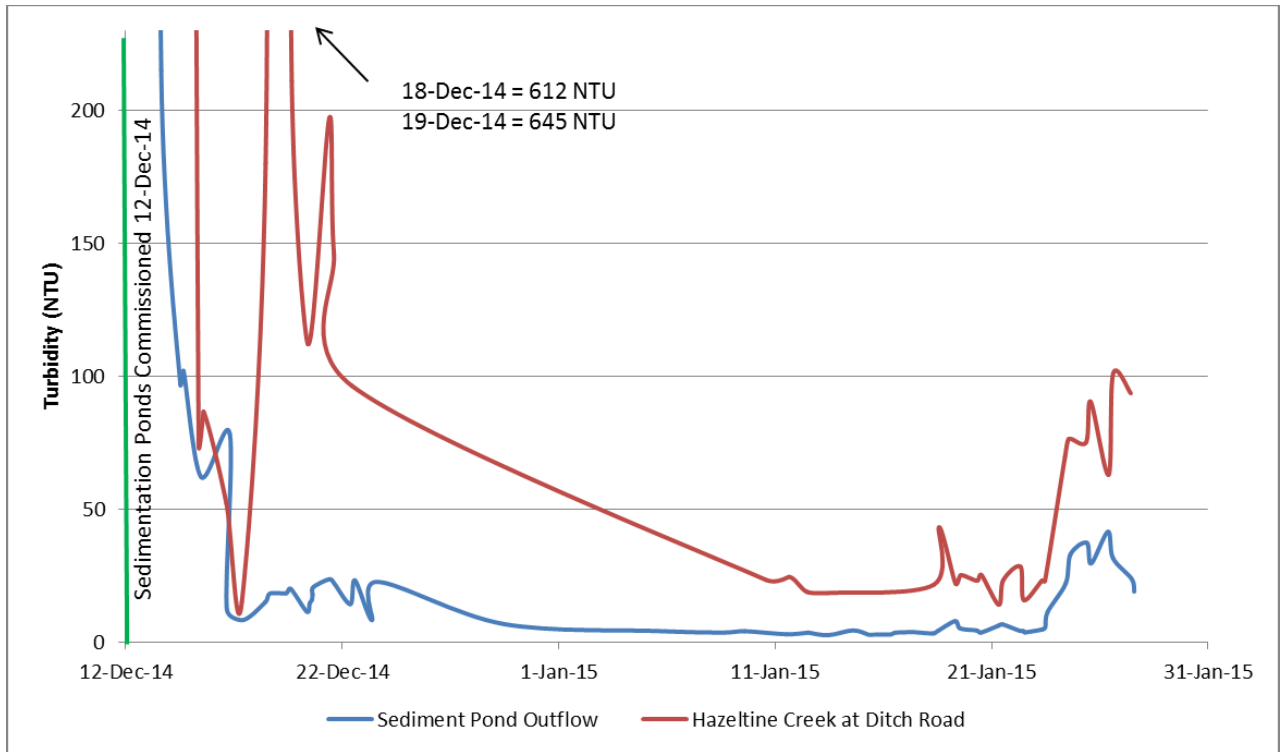


Figure 2. Turbidity time series graph for Hazeltine Creek at the Ditch Road and at the outflow of the Lower Hazeltine Creek sedimentation ponds (December 12th – January 27th)

Water Quality Monitoring Program

The water quality monitoring program currently consists of weekly samples at:

- QUR-1 (Quesnel River at the Quesnel River Research Centre).
- HAC-05 (Hazeltine Creek at the Gavin Lake Road).
- HAC-08 (Hazeltine Creek upstream of the sedimentation ponds and the confluence with Edney Creek).
- HAC-01b (Hazeltine Creek at the outlet of the sedimentation ponds, just upstream of Quesnel Lake).

All scheduled sampling was completed this week. Unseasonably warm weather allowed access and safe conditions for sampling on Quesnel Lake on December 22nd. Field parameter profiles were taken at monitoring sites QUL-18, QUL-79, and QUL-49. Refer to previous weekly reports for a map of sampling locations.

The monitoring program also includes a sonde (datalogger) that is deployed in the Quesnel River at monitoring site QUR-1. The sonde measures field parameters (turbidity, pH, specific conductance, dissolved oxygen, and temperature) every 15 minutes. A second sonde which measures the same parameters is deployed at the outlet of the Lower Hazeltine Creek sedimentation ponds.

Figure 3 shows a time series graph of turbidity at site QUR-1. Turbidity data up to December 23rd are from laboratory analysis completed by ALS Environmental. Data from December 24th onward are laboratory turbidity values from weekly samples supplemented by field data.

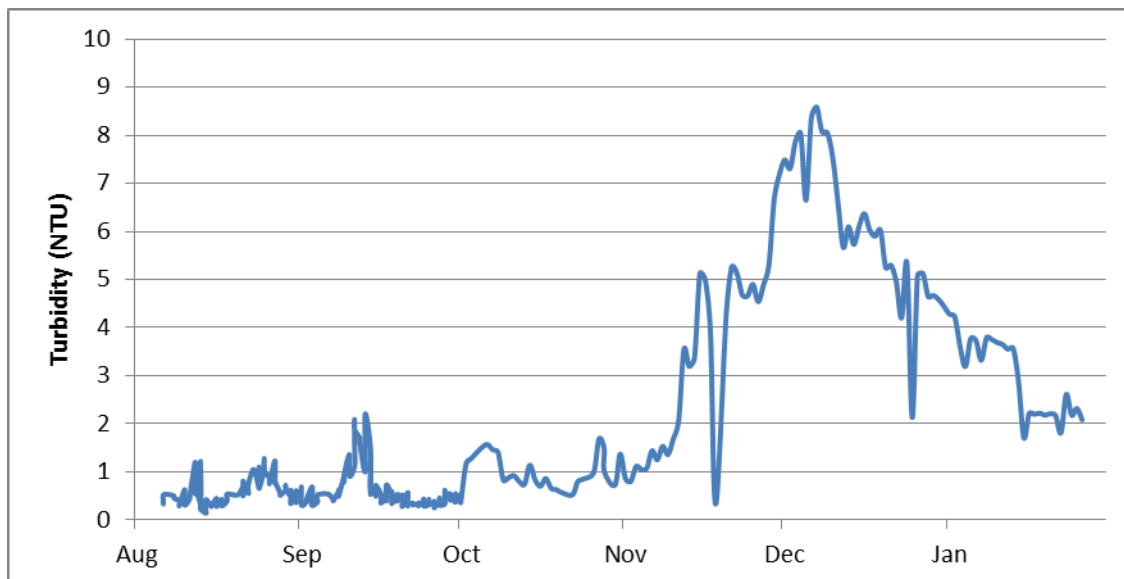


Figure 3. Turbidity time series at sample location QUR-1 (August 6th – January 26th)

Publication of Environmental Monitoring Results & Remediation Updates

Mount Polley will continue to present interpreted environmental monitoring results and updates on remediation work on the [Mount Polley Updates](#) page of the Imperial Metals website (www.imperialmetals.com). No updates were published this week.