B.C.’s Response to the Mount Polley Breach

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In the morning of August 4, 2014, the tailings pond dam at the Mt. Polley Mine site breached. The estimated total volume of materials released as a result of the breach is 25 million cubic metres. This was an unprecedented disaster in BC's mining history.
Mount Polley Breach

Morning of August 4, 2014
Global News footage of Mount Polley breach – August 2014
Remediation of Hazeltine Creek – video credit Golder and Associates and Imperial Metals.
Mount Polley: Initial Response

• The Province of British Columbia committed to take measures to prevent a similar event in the future
• Three investigations were launched immediately following the breach:
  ▪ Independent expert engineering panel
  ▪ Chief Inspector of Mines (MEM)
  ▪ Conservation Officer Service (MOE)
• Additionally, Chief Inspector of Mines ordered expedited dam safety inspections and third-party review for all B.C. mines
Mount Polley: Remediation

- Remediation of the impacted area continues
- Ministry of Environment and Mount Polley Mining Corporation continue to monitor water quality
- Community meetings continue to be held to inform residents and First Nations
- Ministry of Environment continues to work on remediation plans and site clean-up with company
Mount Polley: Remediation
Mount Polley: Independent Panel

- On Aug. 18, 2014, with support of local First Nations, three world-renowned geotechnical experts appointed as panel members
- Panel established under Ministry of Energy and Mines Act and given the power to compel evidence
Mount Polley: Independent Panel Report and Recommendations

- Report released January 30, 2015
- Panel determined cause of breach
Mount Polley: Independent Panel Report and Recommendations

- The Province accepted all seven recommendations
  - Implement best available technology using a phased approach
  - Improve corporate governance
  - Expand corporate design commitments
  - Enhance validation of safety and regulation of all phases of a TSF
  - Strengthen current regulatory operations
  - Improve professional practice
  - Improve dam safety guidelines
Mount Polley: Path Forward

- Actions already underway
  - B.C. Environmental Assessment Office setting out additional information requirements in order to evaluate tailings management options
  - Professional engineers developing further guidance
  - Initiated a dialogue on mining with First Nations in B.C.
Mount Polley: Path Forward

- In response to technical panel’s findings, Chief Inspector directed all B.C. mines to assess the following
  - Undrained shear failure of silt and clay foundations
  - Water balance adequacy
  - Filter adequacy
- Results to be provided to MEM by June 30, 2015 to confirm if conditions similar to Mount Polley may exist and what actions will be taken
Mount Polley: Path Forward

- Code Review Committee and appointed.
- The Code Review Committee will be chaired by the Chief Inspector of Mines and comprises an equal number of representatives from mine labour unions, First Nations and mine operations’ management.
Mount Polley: Path Forward

• Code Review Committee to determine how best to implement the expert panel recommendations.
• Expedited Tailings Storage technical review expected to be completed by the early 2016.
• Tailings Storage revisions in force by mid-2016.
• Health and Safety technical review through 2016.
• Health and Safety revisions in force by spring 2017.
Mount Polley Mine – Restricted Restart

- On July 9 - a conditional authorization was given to the Mount Polley Mine Corporation to begin restricted operations
- The Mines Act permit authorizes to operate at half the rate of normal operations
- TSF will not be utilized during the operation - Springer Pit, an existing open pit on the mine site, will be used to manage the tailings
Mining in B.C. – Moving Forward

• We are taking measures to prevent a similar event in the future and part of this commitment includes reviewing our regulatory framework
• We continue to work with other agencies and First Nations as part of the ongoing response