## UNDERGROUND CAN

## UNDEBMINE HIGHWALL STABILITY

AT SURFACE MINES

On November 20, 2004, a miner was fatally injured while operating an excavator close to a highwall. While the operator's cab was positioned on the highwall side, the highwall collapsed crushing the cab. Subsidence resulting from the pillar mining performed in an abandoned underground mine caused instability in the highwall. The ground control plan did not provide for safe control of the highwall and safe working conditions in such areas



- Establish ground control plans that require the angle, height, benches, etc. of highwalls to be designed to provide stability when adverse conditions are encountered.
- Perform complete and thorough examinations of highwalls at a frequency consistent with the conditions.
- Be aware of changing highwall conditions.
- Train examiners to recognize adverse conditions and environmental factors that can decrease stability.

