# Developing a Geological Understanding

# of Clay Seams

The University of Regina is exploring the concept of being able to understand and predict the potential for unstable ground conditions due to the presence and influence of salt and clay seams in underground potash mines.

The goal of the project is to develop a better geological understanding of such features to provide a basis for considering the rock-mechanics behavior of such seams and for evaluating and developing sensing technologies to detect and map these features. The study will focus on the geological features of the Lower Patience Lake potash bearing formation and has the potential to identify features which may further improve safety.

*Leveraging combined data and expertise can increase mine safety and improve mining efficiency for a critical mineral in Canada.*

**Proponent:** *University of Regina*
**Project Duration:** October 2023 to October 2026
**Project Cost:** **$272,000**
  IMII & Industry Contribution: $182,000
  Mitacs Contribution: $ 90,000