

# PROJECT PROFILE

# LEVACK MINE

## CLIENT

QuadraFNX

## LOCATION

Near the town of Levack in Ontario Canada.

## OBJECTIVE

A system was required to supply backfill so the mine could continue extraction between existing stopes. The plant needed to be transportable to relocate to another mines at a later date. It had to be operational in extreme temperatures at -30°C.

## SCOPE

Production rate of 45m<sup>3</sup>/h of paste was required to meet underground fill rate. The site was very limited with available space for a plant. With the small space available on site combined with the potential to move the plant to a new QuadraFNX mine nearby meant an Aran modular plant was ideal for the situation.

The Levack plant is a dry feed sand plant with a single aggregate hopper. The loading and pre-screening circuit consists of a loading hopper on the sand stockpile level with conveyor transfer to screening and a further transfer conveyor.

Although the intention was to run a paste mix using locally available tailings from tailings dams, difficulties with environmental regulations meant this was not practical. As a result it was necessary to source sand from local quarries to produce hydraulic sand mix.

Construction and commissioning was completed in January 2011. Aran backfill system included: integrated hopper with feeder, high intensity paste mixer, bulk cement storage/transfer system and distribution system. The modular plant arrived pre-insulated to allow for quick assembly on site before winter.

## RESULT

The plant operates at 45m<sup>3</sup>/h to suit the 3 inch surface and underground piping. It has been operational for approximately 10 months and has produced approximately 200,000m<sup>3</sup> of backfill.

## CONTACT DETAILS

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