

## Atomic Energy of Canada - Chalk River

Chalk River, Ontario, Canada

Keller quickly adapted to the changing subsurface conditions installing, both Drilled Displacement Piles (DDP) and Continuous Flight Auger (CFA) piles.



### The project

Atomic Energy of Canada Limited (AECL) located in Chalk River, Ontario was looking to construct a new building. The contaminated ground conditions required Keller to adopt a suitable ground improvement solution.

## The challenge

A ground improvement solution that produced no drill spoils was selected based on potential contaminants within the proposed site.

## The solution

Drilled Displacement Piles (DDP), installed using a specially designed tool, were chosen as the optimal solution because it generated minimal spoils and was free of vibration. After DDP was successfully installed, a proposal to change the technique to Continuous Flight Augercast (CFA) piles was proposed based on varying ground conditions encountered within the work area. The project was successfully completed by installing both DDP and CFA elements.

## Project facts

### Owner(s)

Atomic Energy of Canada Limited (AECL)

### Keller business unit(s)

Keller

### Main contractor(s)

M. Sullivan & Son Limited

### Engineer(s)

Keller

### Solutions

Deep foundations

### Markets

Industrial and manufacturing

### Techniques

CFA (auger cast) / ACIP piles  
Displacement CFA piles

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