



**MODERN  
NIAGARA**

*Design. Build. Service.*

## Saddleridge Pump Station Upgrade



### PROJECT DETAILS

LOCATION:  
ALBERTA

MARKET SECTOR:  
MUNICIPAL

The Saddleridge pump station supplies drinking water to hundreds of homes and businesses in a number of Calgary's Northwest communities. This renovation involved replacing six of the existing turbine pumps, updating some of the existing HVAC equipment, as well as providing a new emergency backup power generation system to ensure the station will continue to be a reliable and efficient part of Calgary's water distribution network.

One of Saddleridge station's unique features is its use of vertical turbine style pumps. Each of the six 25-foot long pumps was installed inside concrete wells. The wells are fed from two domestic water reservoirs under nearby soccer fields. This unique method of feeding the station meant that traditional isolation and bypass procedures required careful coordination with the City's Water Services and Operations teams. Furthermore, due to the size of the pumps, very careful lifting procedures were developed to ensure the pumps could be lifted through the station's existing skylights safely and without any damage to the equipment or existing structure.

Despite a number of challenges with coordination of nearby ongoing water infrastructure projects, existing conditions and strict water quality and safety regulations, Modern Niagara was able to successfully execute this project for the City of Calgary.