



**CIVIL**  
**[UNDER \$50M]**

## GREGOIRE HDD

SANITARY SEWER SIPHON  
PROJECT

**LOCATION:**  
FORT McMURRAY  
**COST:** \$17.5 MILLION



**F**ort McMurray, Alta., has been working hard over the past few years to ensure that its infrastructure can handle the massive growth the community has experienced from the oilsands boom.

Designed to expand the capacity of the existing sanitary sewer system while addressing several sewer capacity issues, the Gregoire HDD Sanitary Sewer Siphon Project goes a long way to meet that need. The project is notable in that it involved the design, construction and installation of two 600-millimetre-diameter steel pipelines, each 1,600 metres long, by using a

trenchless, horizontal directional drilling method.

This Top Project in the Civil—Under \$50 Million category faced several challenges, such as drilling through the underlying geology of the oilsands formation and dealing with the steep terrain and environmental sensitivity of the Saline Creek valley and the Saline Creek.

Still, contractor Direct Horizontal Drilling and engineering firm Associated Engineering managed to bring the project, originally expected to cost \$19 million, in on time for \$17.5 million. ☒

THE GREGOIRE HDD SANITARY SEWER SIPHON PROJECT INVOLVED THE DESIGN, CONSTRUCTION AND INSTALLATION OF TWO STEEL PIPELINES USING A TRENCHLESS, HORIZONTAL DIRECTIONAL DRILLING METHOD.