

Shand Carbon Capture Test Facility

Estevan, Saskatchewan, Canada

Keller successfully completed construction within the operating power generating facility with zero safety incidents recorded.



The project

The Carbon Capture Test Facility was built to help advance carbon capture system knowledge and technology. It provides technology developers the opportunity to test new and emerging systems for controlling carbon emissions in a real-world environment connected to an operating coal-fired power plant.

The challenge

The work site was within an active power generating facility with potentially poor soil conditions. Pile reinforcing design was constricted and there was a concern for proper concrete flow and final placement. The entire team initiated the project on a strong positive note and worked together to provide the owner with a successful project.

The solution

Keller installed over 100 small and large diameter drilled shafts (friction piles) to depths of 5.1 to 15.1 metres for the building and pipe rack portions of the foundation. Having worked previously on this site, Keller was familiar with the drilling conditions and identified all challenges prior to work starting. Experience, regular communications, correct equipment, focus on safety, and cooperation was critical to Keller completing this project ahead of schedule with zero recordable safety incidents.

Project facts

Owner(s)

SaskPower

Keller business unit(s)

Keller

Main contractor(s)

Graham Industrial Services Ltd.

Engineer(s)

CIMA

Solutions

Deep foundations

Markets

Industrial and manufacturing

Techniques

Drilled shafts

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