



ALBERTA INNOVATES

Research and Innovation Project – Knowledge Transfer Summary

Project Title: Oil-Sands Produced Water Treatment by Electrocoagulation
Project No: 2331
Project Lead: Edward Roberts, University of Calgary
Partners: Alberta Innovates, Canadian Natural Resources Ltd.
Status: Ongoing

Project Summary:

This project aims to develop new treatment solutions for the removal of contaminants, particularly silica but also organics and some hardness, using electrocoagulation (EC), to enable increased water recycling while decreasing capital and operating costs at in-situ oil sands operations such as Steam Assisted Gravity Drainage (SAGD). An important contaminant in SAGD produced water treatment is silica, which can be difficult to remove and impacts both produced water recycle due to fouling in steam generators and disposal water as silica can clog the disposal wells. EC is a commercially available water treatment technology, which has been identified as a strategically important solution for silica removal for existing and future in-situ oil sands applications, but requiring further developing toward commercialization.

Outcomes:

None available.

Links:

None available.

Alberta Innovates Contact:

Rick Nelson

richard.nelson@albertainnovates.ca