



CASE STUDY

PROJECT

Suncor Fort Hills Tank Skirt System

COMPANIES INVOLVED

Secure Energy Services, Suncor, Western Engineered Containment Ltd. (WEC)

PRECIDIUM™ ECS™ and **PRECIDIUM™ Fusion** are exclusively manufactured by Quantum Chemical for Western Engineered Containment. **PRECIDIUM™**, a Quantum Chemical trademark, is used with permission.

TANK SKIRT PURPOSES

Erosion Control

Rain or melting snow can carry earthen material (dirt) from the slopes coming down from tanks to the toe, compromising tank foundation stability. **PRECIDIUM™ ECS™** (ECS™) prevents that from happening by providing an impermeable barrier between the ground and the elements.

Corrosion Control

Most tank corrosion occurs at the base of the tank; ECS™ eliminates flow paths from the surface to under the tanks, thereby minimizing the amount of fluid and corrosion at the tank base.



INSTALLATION

During the fall of 2018, over a two (2) week period, WEC installed ECS™ 40 mil Tank Skirts around five (5) tanks at Suncor's Fort Hills facility. Total coverage was 79,578ft², at an average radius of 15ft from the base of the tank.

The impermeable ECS™ Tank Skirt was attached directly to the base of the tank and was keyed in a 2ft trench at the base of the skirt toe. ECS™ permanently attaches and seals to any substrate including steel tank bases and concrete spillways.



The entire 40 mil liner was pre-fabricated offsite utilizing WEC's industry-leading robotic application pre-spray system and was permanently fused together onsite with **PRECIDIUM™ ECS™ Fusion**.

CUSTOMER EXPERIENCE



WEC's **PRECIDIUM™ ECS™** Tank Skirt was chosen by Suncor as the solution to minimize berm erosion and tank base corrosion. WEC's industry leading 15-year Warranty provides worry free maintenance for many years to come. For reference on this project or any other ECS™ installation, please contact WEC at the numbers below or visit us at www.wecontain.com.