



## Reference Project

Groundwater Treatment for  
Trans Mountain Pipeline

CarboNet ●●

# Trans Mountain Corp. delivers some 300,000 barrels of petroleum daily to the West Coast. The Trans Mountain Expansion aims to increase capacity and expand access to global markets.

## An ambitious expansion:

The installation of 900 km of new pipeline will greatly expand the existing pipeline that measures 1,261 km across Alberta and British Columbia.

## Increased scrutiny and regulations:

As the largest project in TMP's history, the expansion requires dredging, dewatering, and discharge to waterways and irrigation channels. Groundwater treatment is crucial to ensure released water is within regulatory specifications.

## The chosen chemistry:

SimpleFloc, an anionic flocculant backed by the NanoNet platform, emerged as the solution for clarification, demonstrating enhanced flocculation, reduced active chemistry, and much lower toxicity.

## A simpler solution for complex operations:

SimpleFloc is delivered ready to use, eliminating make-down, cutting chemical consumption, and reducing polymer by 80%.

## Benefits beyond cost:

Not just cost-effective, SimpleFloc tackled DAF carry-over issues, reducing stress on the system and improved operator conditions, particularly in cold weather.

"It's the most technologically innovative water treatment application I have laid eyes on this decade. It has been excellent in helping our project operate within spec, and in simplifying our overall process. It's the difference between a system that just meets regulations and one that's set up to accelerate and scale."

**Randy Khalil**

Dewatering & Water Treatment SME

### RESULTS

KPI	TARGET	RESULT
Turbidity	<10 NTU	0.05 - 1.0 NTU
Iron	<1 ppm from DAF	0.01 - 0.2 ppm

### IMPACT

- 80% reduction in Polyacrylamide
- 77% reduction in Scope 3 CO2 emissions
- 8.4 million litres of water conserved

**CarboNet:** As freshwater becomes increasingly scarce and regulated, companies from energy and mining to food and beauty turn to CarboNet to reduce, recycle, and renew the water they need to compete.