



Location

Edmonton, AB to Burnaby, BC

Client

Trans Mountain Corporation

Status

2012 – Present

Project Description

The Trans Mountain Expansion Project (TMEP) has been a high profile and highly contested pipeline and associated facilities project. The Project is the twinning of the existing 1,150km of pipeline running from Edmonton, AB to Burnaby, BC, and is currently in the construction phase.

Client Brief

Trans Mountain Corporation received approval from the Government of Canada to move forward with its expansion project. As the largest Project in the pipeline's history, it involves installing approximately 980 kilometres of new pipeline, new and modified facilities including pump stations and terminals, and a new dock complex at the Westridge Marine Terminal in Burnaby, British Columbia.

GeoVerra team members have been working closely with the TMEP Engineering team over the past eight years, delivering efficient, reliable results, and as such, were awarded survey work for the expansion project.

Primary Services

Pre-Legal

- GeoVerra has completed preliminary surveys for the TMEP, including legal ties to determine the right of way (ROW), crossing profile surveys, line locates, and topographic surveys.

Engineering

- Base plans have been prepared utilizing legal survey evidence and kept up to date throughout re-routes. Site-specific plans have also been prepared for various areas throughout the route to better assist the engineering team design the IFC plans.

AXID

- AXID surveys to identify access roads and crossing throughout the Project.

Regulatory Surveys and Plan Preparation

- GeoVerra has completed legal surveys and prepared legal plans for Canada Lands, Alberta Land Titles, and British Columbia Land Titles in areas where Trans Mountain has purchased land.
- GeoVerra has prepared Individual Ownership Plans for all private land parcels in both Alberta and British Columbia, as well as crown sketch plans for all crown land in both provinces, ensuring all regulatory requirements are maintained to obtain a pipeline ROW.

Pre-Construction Surveys

- Staking, flagging and sweeping of the ROW limits started in the Edmonton area at the beginning of October 2019 and has progressed into several areas in BC, including Valemount, Clearwater, Kamloops, Merritt and Hope.

Construction As-Built

- As-built construction centerline staking and pipe as-builts are continuing in Alberta.

Construction Surveys

- Several of GeoVerra's team members participated in the Trans Mountain Anchor Loop construction surveys from 2007 to 2009 for portions of that expansion from Hinton, AB to Jasper, AB and continuing through Mount Robson Provincial Park, BC.

Reactivation Dig Site Surveys

- Trans Mountain has completed expansion projects since the original pipeline became operational. As a result, some sections are already twinned. The twinned sections have an active pipeline and a deactivated segment of pipeline.
- To complete the full twinning of the pipeline system, Trans Mountain will reactivate two pipeline segments.
- GeoVerra is completing integrity dig surveys in these reactivation areas, and throughout the existing Trans Mountain Pipeline system in both British Columbia and Alberta. Reactivation site surveys will be ongoing during 2020.

Outcome

As the entire Project progresses and GeoVerra delivers responsive, efficient and solutions-based performance, we anticipate a continued partnership with Trans Mountain Corporation.