

ELK RIVER PROJECT



Surerus Murphy Joint Venture constructed a 40 km, 48” pipeline for TC Energy as part of the Edson Mainline Expansion Program. This project commenced in the fall of 2021, with mechanical completion in the fall of 2022. Cleanup continued into the fall and winter of 2022/2023, with the final project completed in March 2023.

Elk River featured two major open-cut watercourse crossings requiring continuous concrete coating (Nordegg River and Elk River) and a horizontal directional drill to install the pipeline underneath the Brazeau River. Community engagement was central to the project’s success and ongoing through to the completion.

PROJECT OVERVIEW:

- **Client:** TC Energy
- **Location:** Near Drayton Valley, AB
- **Pipeline length:** 40 km
- **Pipe diameter:** 48”
- **Total workers at peak:** ~680
- **Regulator:** Canada Energy Regulator and Alberta Energy Regulator

CONSTRUCTION FEATURES

- **Trenchless crossings:** 1200 m HDD of the Brazeau River, 4 auger bores, 8 HDBs
- **Open cut crossings:** 16 watercourses, 58 wetlands, 3 roads, 8 pipelines
- **Hydrotest sections:** 4 mainline
- **Welding processes used:** Mechanized welding (RMS GMAW) for mainline with GMAW/FCAW for poorboy and tie-ins
- **Coating processes used:** Automated spray coating (CRC SPC 2888) for mainline and brush applied SPC2888 for poorboy and tie-ins

COMMUNITY BENEFITS & IMPROVEMENTS:

- Over \$26,000 in community donations
- Project prioritized hiring its workforce from the local area
- Workers lived locally, investing dollars into local businesses

ON-SITE LEADERSHIP:

Project Director: Paul Kelly

Project Manager: Alex Jaber

Superintendent: Spencer Beckner

PROJECT TIMELINE:

Contract award: Q4 2021

Mobilization: Q4 2021

Construction phase: Q4 2021 to Q2 2022

Substantial completion: Q3 2022

Clean up: Summer / Fall 2022 and Winter of Q1 2023

Final completion: April 2023



Surerus Murphy Key Contacts:

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For more information on TC Energy's Edson Mainline Expansion Project:

www.tcenergy.com/siteassets/pdfs/natural-gas/edson-mainline-expansion-project/tc-edson-mainline-expansion-fact-sheet-april-2021.pdf



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