

Line 3 Decommissioning Segment 4 Update



Recognize the Treaties and Métis Homeland

Across the prairies

Activities occur within:

- Treaty 1
- Treaty 2
- Treaty 4
- Treaty 6
- Treaty 7
- The Metis Homeland

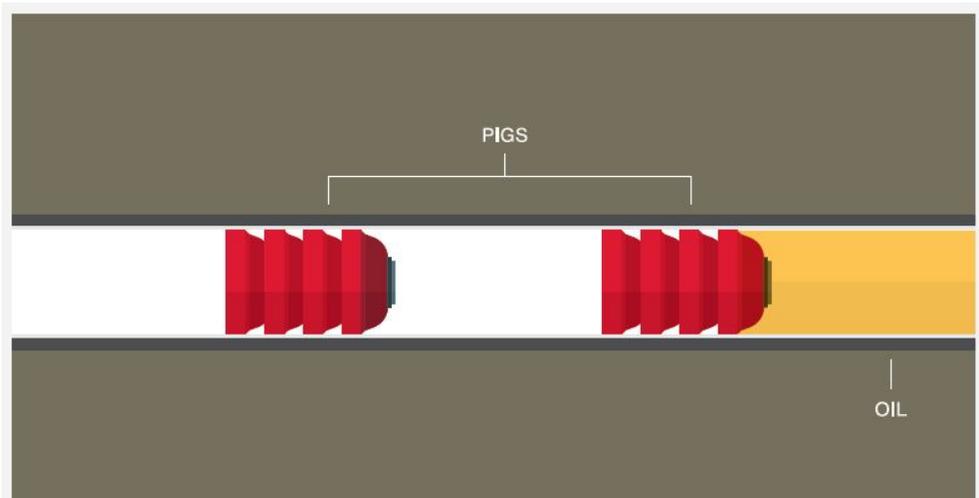


What We Planned

Segments



Step 1 – Removing the Product from the Pipeline



1. Remove the Oil from the Pipeline:

The vast majority of the oil is removed using specially designed cleaning instruments.

- Technically speaking, removing product is not considered part of the “decommissioning process” but it is a required step to launch decommissioning activities.
- This step removes approx. 99.9% of the oil from the line

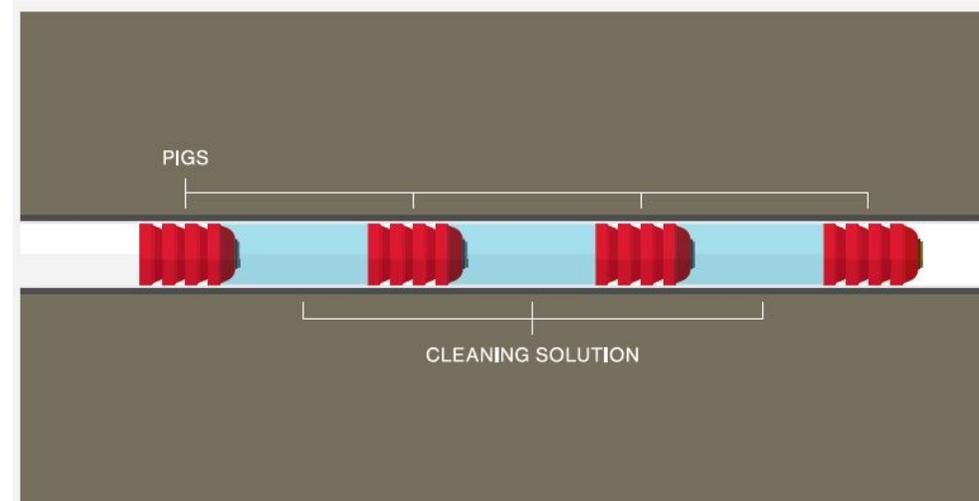
Step 2 - Cleaning

Purpose:

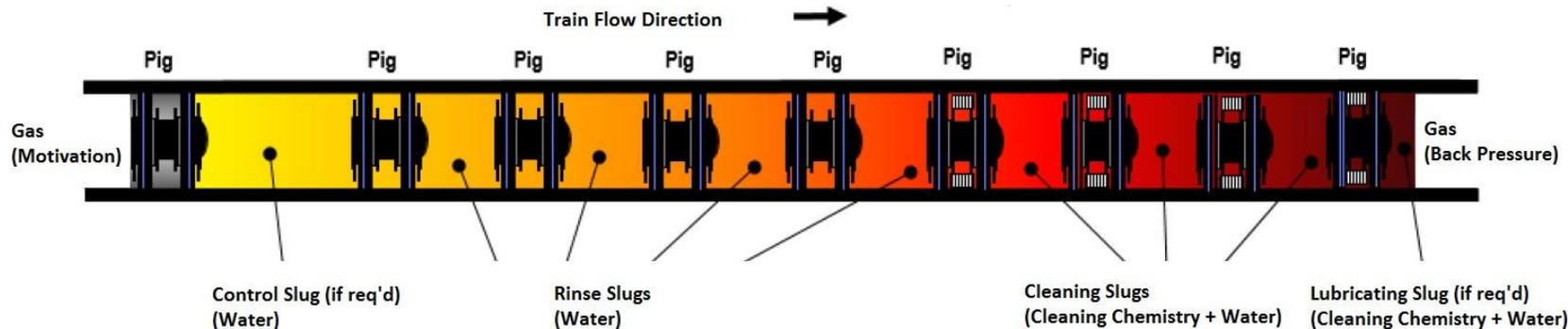
- Protect the public and environment by removing residual product from the pipeline after it has been emptied

Scope:

- Clean each “trap to trap” (terminal to terminal) segment of the existing Line 3 pipeline with a multi-pig train (pigs, cleaning solution, water)
- The cleaning program is based on the “R&D” effort as part of Line 3 Cromer Replacement and other decommissioning projects completed by Enbridge



2. Clean the Pipeline: A combination of cleaning instruments and cleaning solution is used to wipe and clean the pipeline.



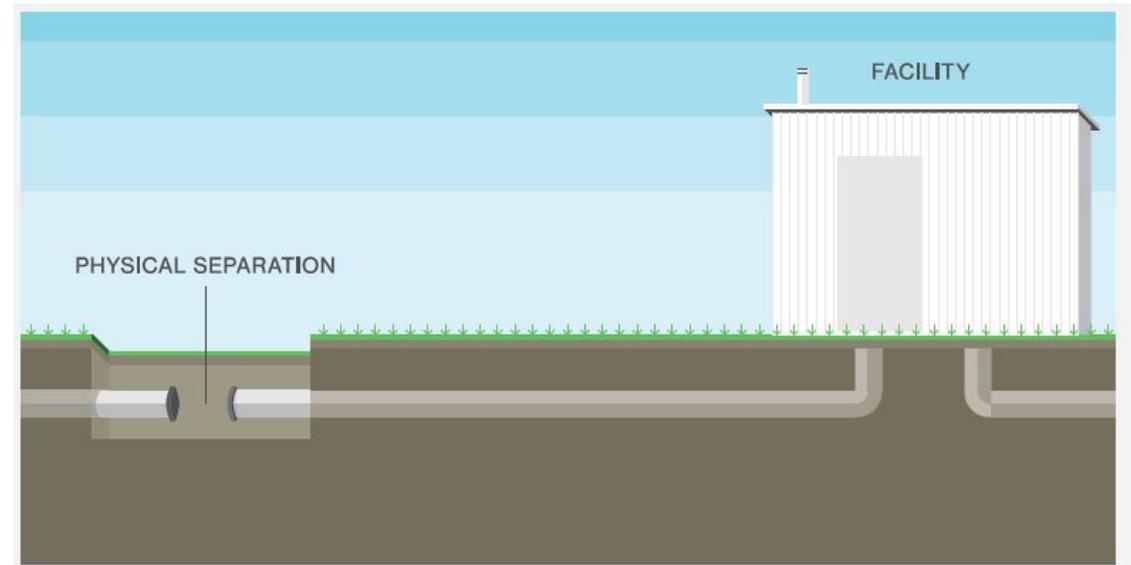
Step 3: Disconnecting the Pipeline (Isolation)

Purpose:

- Protect the public and environment by preventing 'new' product from entering the pipeline, and protect people from electrical hazards from infrastructure left in-place.
- Provides additional benefit to the environment by preventing flow of water along the pipeline.

Scope:

- Physically separate the pipeline from pump stations, terminals and other operational facilities (valves etc)
- De-energize and electrically isolate equipment left in- place
- 51 sites in total across Line 3 (Outside Facilities).



3. Disconnect the Pipeline: The pipeline is physically disconnected and sealed off from active operational facilities like pump stations to prevent oil from re-entering the system.

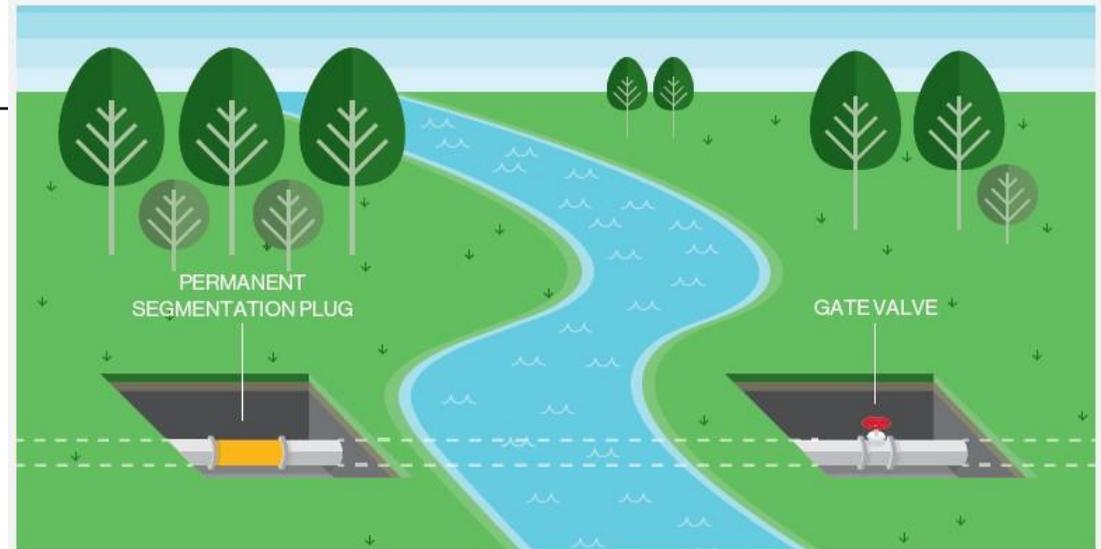
Step 4 - Segmentation

Purpose:

- Protect the environment by preventing flow of water along the pipeline

Scope:

- Similar size and scope to a “Maintenance Dig”.
- Cut and remove a small portion of pipe and then weld two plates to either side of the cut
- 36 sites in total across Line 3 (Outside Facilities).



4. Segment the Pipeline: Permanent physical barriers are created inside the pipeline to prevent the pipeline from acting as a water conduit. This includes gate valves and permanent segmentation plugs.

1. The gate valves are closed and permanently disabled.
2. Permanent segmentation plugs are strategically placed along the pipeline.

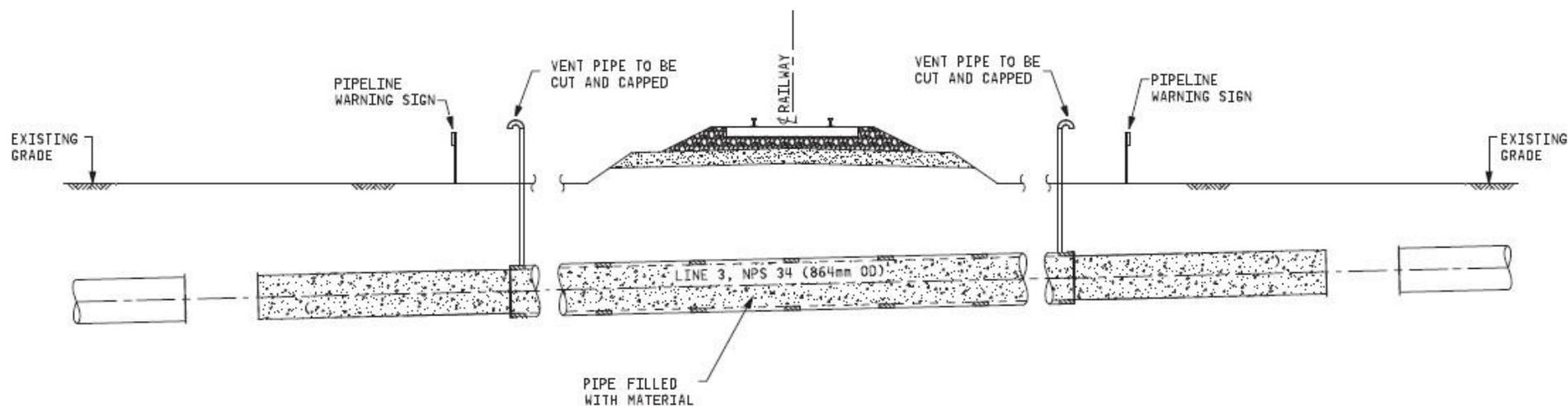
Step 5 – Railway Fill

Purpose:

- Protect structure railway crossings by filling the pipeline, provide additional benefit to the environment by preventing flow of water along the pipeline

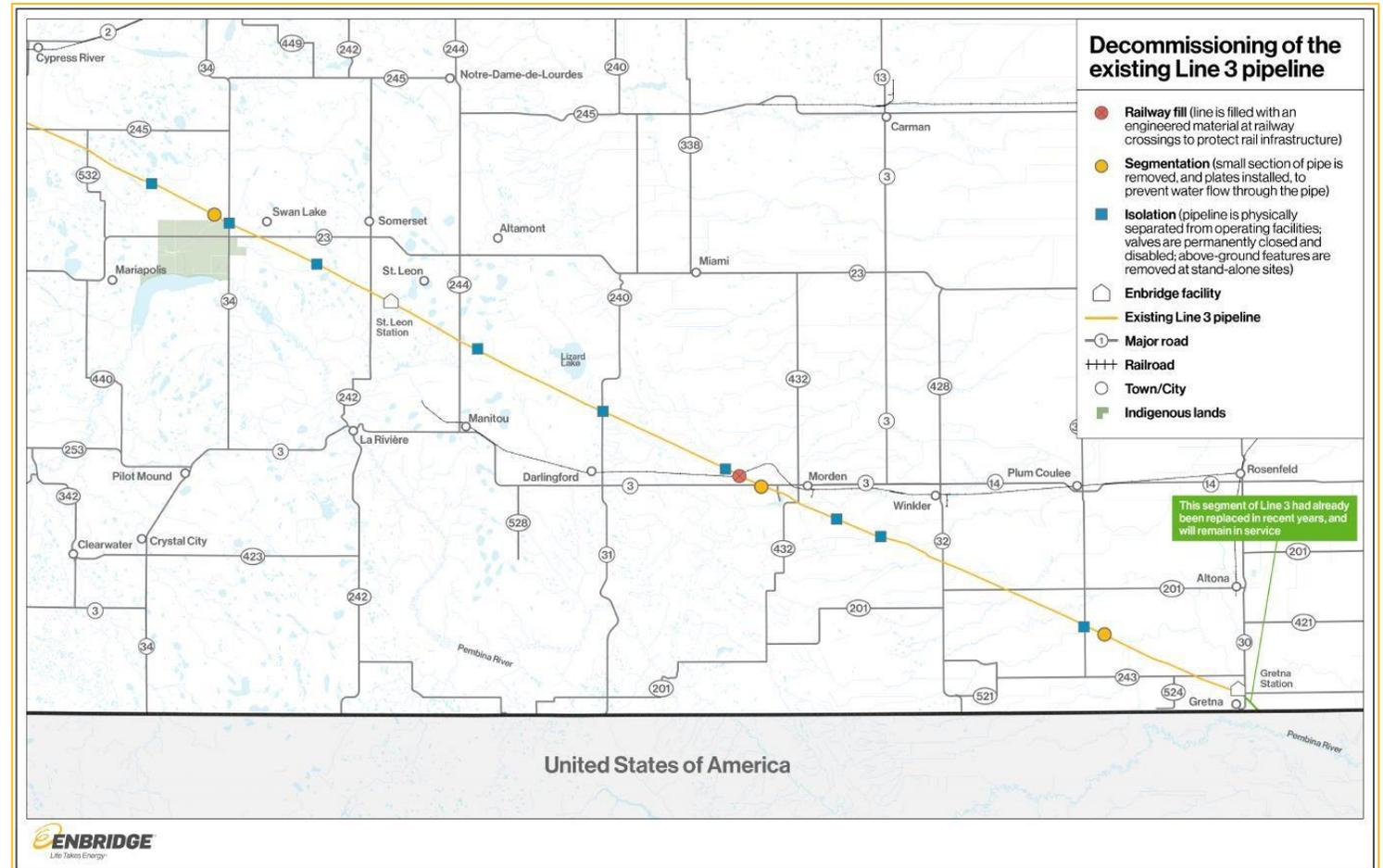
Scope:

- Cut and remove a small portion of pipe, generally on both sides of the railway
- Weld two plates to either side of the cut
- Connect to the top of the pipe and inject the fill material



Summary of Site Activities – Segment 4

- Railway fill - 3
- Segmentation – 6
- Isolation – 22



What We Did

Segment 4

- Enbridge decommissioned a 260Km segment of Line 3 from Cromer to Gretna Manitoba.
- Decommissioning civil activities started in late May with rig matting to support cleaning of legacy Line 3.
- Crews safely performed:
 - Excavation of sites
 - Rail fill
 - Valve removal
 - Cut /cap
 - Backfill and reclamation.
- Field work was completed mid October.
- Facilities work continues



Summary of Site Activities



Segmentation Cut



Segmentation Cap

Summary of Site Activities



Segmentation Backfill



Segmentation Reclamation

Summary of Site Activities

Segment 4

- Railway fill - 3
- Segmentation – 6
- Isolation – 22
- Total Activities S4: 30



Highlights

- Indigenous General Contractor for Civil work
- Indigenous General Contractor for Decommissioning activities
- 2 Indigenous Construction Monitors on all Decommissioning Activities
- CER Inspections with IAMC Monitors
- One site with IAMC Monitors



L3D Segment 4 Indigenous Spend and Inclusion

Indigenous Vendors

- Indigenous only bidding process
 - Three Indigenous business involved in the competitive process
- A&B in partnerships with Peguis First Nation was awarded civil site prep work
- N4/Steel River a Manitoba Metis Federation partnership was awarded field work

Indigenous Labour

- N4/Steel River
 - Over 75% to a peak of 85% were Indigenous
 - 27 of 34 individuals were Indigenous



2022 - Segments 1,2,3



**Thank
you**