

# Enbridge Line 5 Tunnel Project Environmental Impact Statement

## INTRODUCTION

The U.S. Army Corps of Engineers (USACE), Detroit District, is reviewing an application for a Department of the Army (DA) permit by Enbridge Energy, Limited Partnership (Enbridge) to construct a tunnel (the Line 5 Tunnel Project) that would house a replacement segment of Enbridge’s Line 5 pipeline crossing the Straits of Mackinac (Straits) in Lake Michigan. The Line 5 Straits crossing currently consists of two 20-inch diameter pipelines that rest on or are anchored to the lakebed of the Straits.

Under the Proposed Action, Enbridge would construct a tunnel underneath the lakebed of the Straits (see back of Factsheet) to house a new 30-inch single pipeline for light crude oil, light synthetic crude oil, light sweet crude oil, and natural gas liquids, replacing the existing, dual pipelines crossing the Straits. Upon completion, the tunnel would be operated by Enbridge and owned by the Mackinac Straits Corridor Authority.

Portions of the project over which the USACE has regulatory jurisdiction include the structures and work associated with tunnel construction under the Straits, water intake structures in the Straits, and the discharge of fill material into wetlands.

## PROJECT PURPOSE

The purpose of the project is to provide transportation of light crude oil, light synthetic crude oil, light sweet crude oil, and natural gas liquids between Enbridge’s existing North Straits Facility and Mackinaw Station, and to maintain the existing capacity of the Line 5 pipeline while minimizing environmental risks.

## ADDITIONAL INFORMATION



Please visit the Project website for latest updates and to sign up for Project notifications:

<https://www.line5tunneleis.com/>

## ENVIRONMENTAL REVIEW

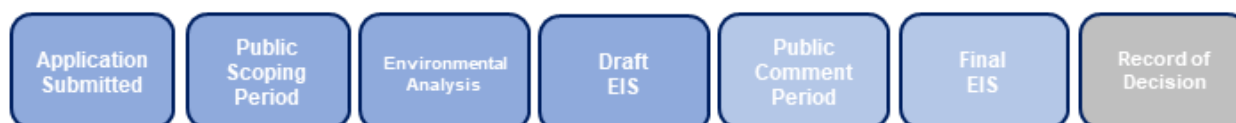
In response to Enbridge’s application, the USACE, Detroit District, published a Notice of Intent (NOI) to prepare an Environmental Impact Statement (EIS) for the Line 5 Tunnel Project. Publishing the NOI also initiated the scoping and consultation processes consistent with the National Environmental Policy Act (NEPA) and Section 106 of the National Historic Preservation Act. The EIS scoping process, along with past comments received from the USACE Public Notice comment periods and input from Cooperating Agencies and Tribal governments, will be used to identify resource issues and concerns for consideration in the EIS. General concerns in the following categories have been identified to date: potential direct effects to waters of the United States including wetlands; water and sediment quality; aquatic species and fisheries; threatened and endangered species; archaeological and cultural resources, including the Straits as a Traditional Cultural Landscape; Tribal treaty rights and interests; recreation and recreational resources; waste management; aesthetics; noise; air quality; climate change, including greenhouse gas emissions and the social cost of greenhouse gases; public health and safety during construction and operations; navigation; erosion; invasive species; energy needs; environmental justice; needs and welfare of the people; and cumulative effects.

## GOVERNMENT & COMMUNITY ENGAGEMENT

Throughout the EIS and DA Permit application review process, the USACE, Detroit District seeks input from federal, state, and local government agencies, tribal governments, and affected communities.

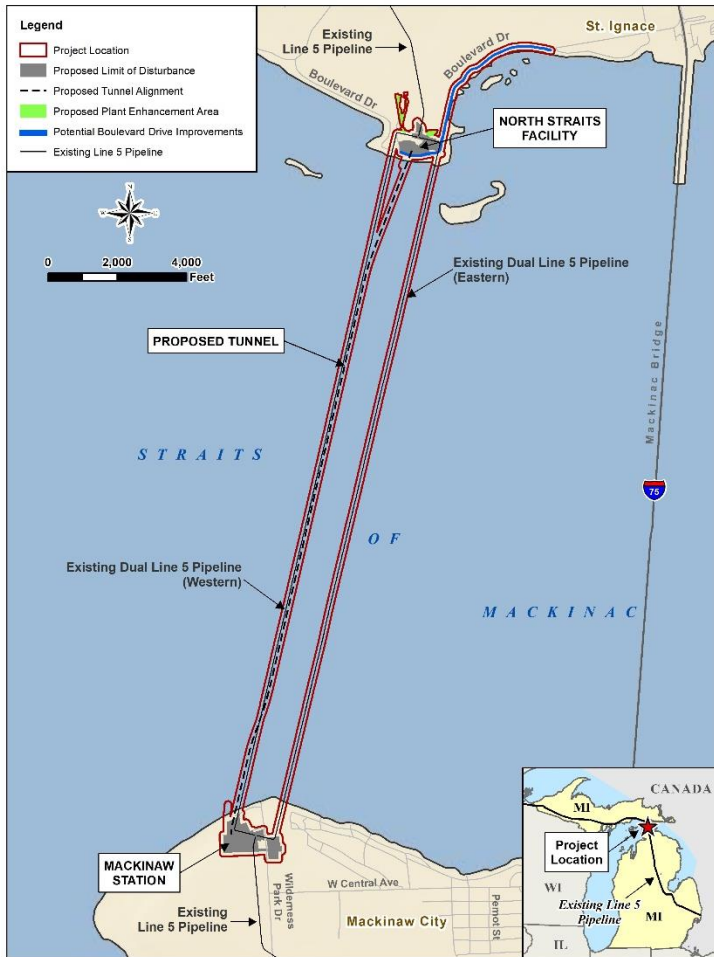
The USACE, Detroit District, in consultation with the State Historic Preservation Officer and Tribal governments, is also preparing an Ethnographic/Cultural Landscape Study as part of its EIS and its responsibilities under Section 106 of the National Historic Preservation Act.

## TIMELINE



We are here

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North Straits Facility (North Site) Disturbance Area and Post-construction Layout



Mackinaw Station (South Site) Disturbance Area and Post-construction Layout

## LINE 5 LOCATION AND CONSTRUCTION

**What is the Location of the Proposed Line 5 Tunnel?** The proposed project is located within Mackinac County in Michigan's Upper Peninsula and Emmet County within Michigan's Lower Peninsula. The tunnel would cross below the lakebed of the Straits, connecting Point La Barbe in Michigan's Upper Peninsula to McGulpin Point in Michigan's Lower Peninsula. This approximately 3.6-mile span represents the shortest distance between Michigan's Upper and Lower Peninsulas.

**How would the Line 5 Tunnel be Constructed?** Except for the entrance points on either side of the Straits, the tunnel would be constructed entirely through bedrock, at depths of 30 feet to 370 feet beneath the lakebed of the Straits. This will be done using a tunnel-boring machine. Pre-cast concrete segmental lining would be installed as the tunnel is constructed, and the space outside the tunnel's

concrete lining would be filled with low-permeability grout. Temporary construction facilities in uplands would include stormwater ponds, spoil storage and management areas, a construction water treatment plant, materials storage and staging areas, office and parking facilities, and a power substation and generator. Permanent facilities constructed in uplands would include stormwater ponds, access drives, and a ventilation building at each end of the tunnel. Areas remaining, within the limits of disturbance, would be revegetated. Federally protected plant species currently located within the limits of disturbance for construction at the North Site would be relocated to identified plant enhancement areas.

Upon completion, Enbridge proposes to decommission the existing Line 5 dual pipelines by purging, cleaning, and abandoning in place.

The following website provides additional information on the EIS:

<https://www.line5tunneleis.com/>