



MARTEN FALLS FIRST NATION
COMMUNITY ACCESS ROAD

Field Update

Xcalibur Smart Mapping

Issued: August 26, 2026

What's New?

Field programs will continue into the 2026 fall season to support the Preliminary Design and future permitting for the Marten Falls First Nation (MFFN) Community Access Road.

This week, **Xcalibur Smart Mapping (Xcalibur)** is aiming to conduct a geophysical survey along the proposed route of the MFFN Community Access Road.

The survey will help support the preliminary design of the Community Access Road by helping us to better understand:

- Soil and bedrock composition;
- Depth of materials; and
- Groundwater flows.

A photo of the Xcalibur system in use to map the layers of the land beneath the surface.

About Xcalibur

The Xcalibur Smart Mapping survey uses airborne electromagnetic technology to map subsurface features beneath the Community Access Road. The survey is conducted from a helicopter and does not require ground disturbance or other invasive work on the land. The primary temporary impact to residents is expected to be noise associated with helicopter operations.



The Summer 2026 Field Notice ([here](#)) provides information on planned field work.





What to expect

The Xcalibur system will be assembled in Nakina, Ontario. The main survey lines will be flown by helicopter over a series of days.

During this time, you may observe a helicopter flying at a low altitude with a large sensor (pictured below) suspended beneath it.

The equipment will be flown approximately 30 metres above the ground. Flying at this height is necessary to make sure the equipment can accurately measure the physical properties of the ground.



The Resolve system uses sensors to gather information about what is underground.

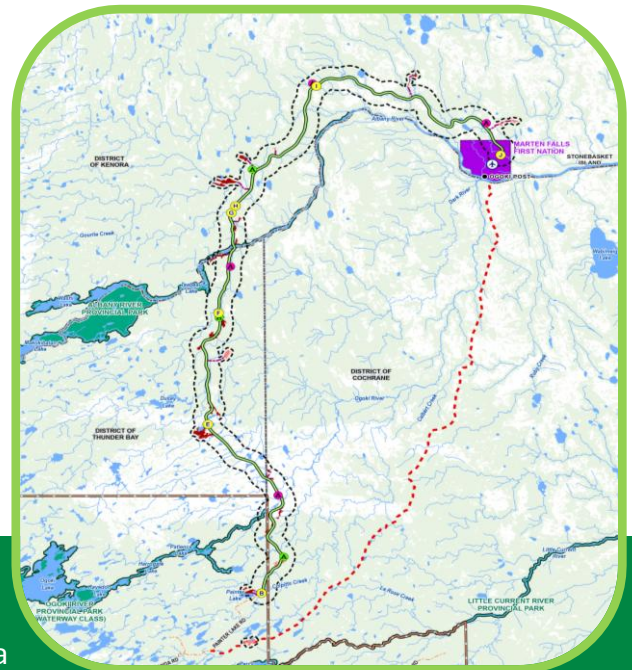
Electromagnetic signals help the system create detailed subsurface maps.

When?

The survey is expected to take up to 5 days and may start as early as August 27, 2026. Dates are subject to change.

Where?

The main survey lines will be flown by helicopter from Nakina to Ogoki along the proposed route of the Community Access Road (see map).



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