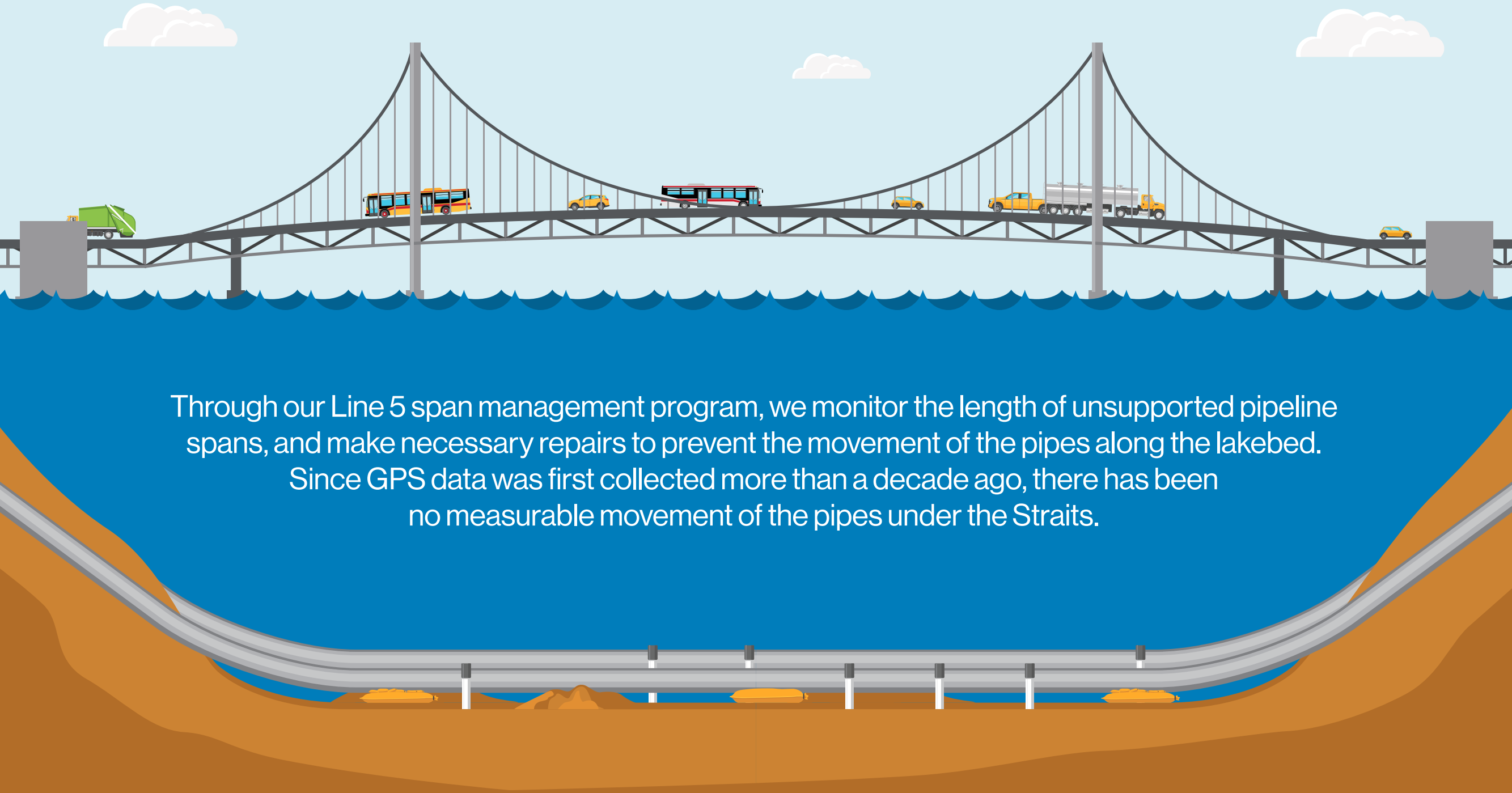


# How do we support Line 5?

As it travels under Michigan's Straits of Mackinac, Enbridge's Line 5 splits into two 20-inch-diameter, parallel pipelines that are buried onshore, and taper off underwater to depths of up to 250 feet.

**2** parallel pipelines

**4.5** miles long, travelling under the Straits of Mackinac



Through our Line 5 span management program, we monitor the length of unsupported pipeline spans, and make necessary repairs to prevent the movement of the pipes along the lakebed. Since GPS data was first collected more than a decade ago, there has been no measurable movement of the pipes under the Straits.

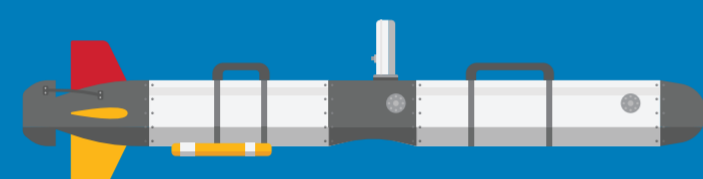
## What is an unsupported span, and how do we monitor these spans?

While the original Line 5 engineering analysis noted unsupported spans of up to 140 feet are safe, our easement agreement with Michigan requires that these unsupported spans cannot exceed 75 feet.

AUV

Expert diver

ROV



We keep a close eye on these spans, since currents may cause the lake bed to shift naturally

No greater than 75 ft

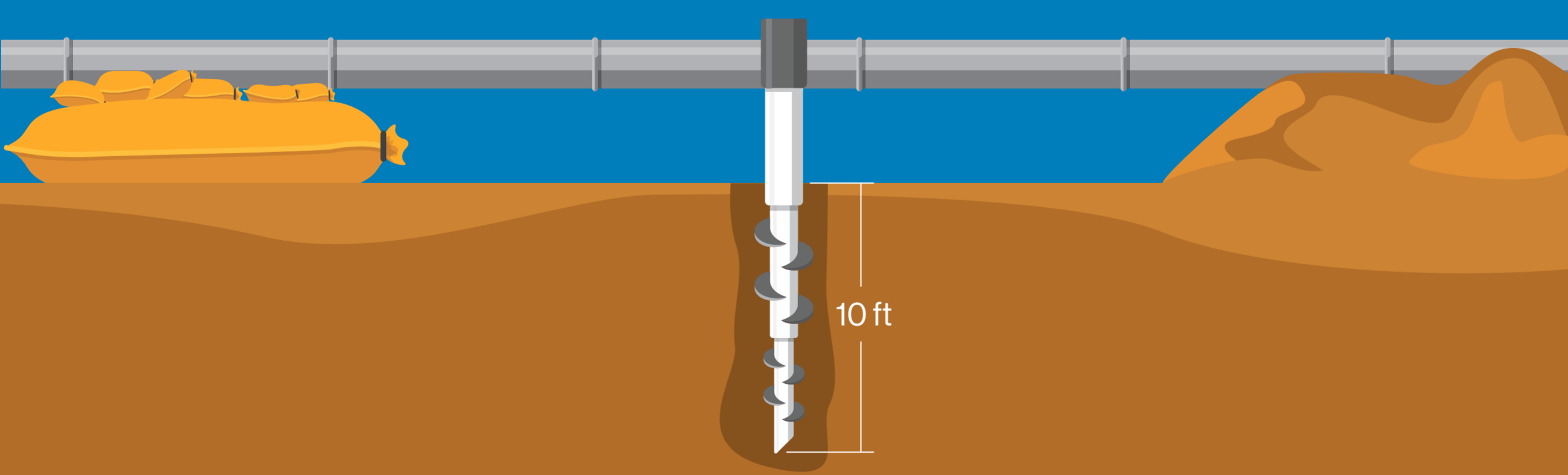
## What constitutes a "support"?

According to our easement agreement with Michigan, a support can consist of:

**1** Sandbags

**2** Screw Anchors

**3** Lake Bed



## Bolstering our support system

Our recent regular inspection found four sections that exceed 75 feet (the longest being 78 feet) due to naturally occurring erosion of the lake bed. We reinforced these sections with four new anchor supports in November 2016.

Along with 40 others that we installed in 2014, the Line 5 Straits crossing is now secured with a total of 126 anchor supports. We've also applied for permits to install 18 more as a proactive measure.

