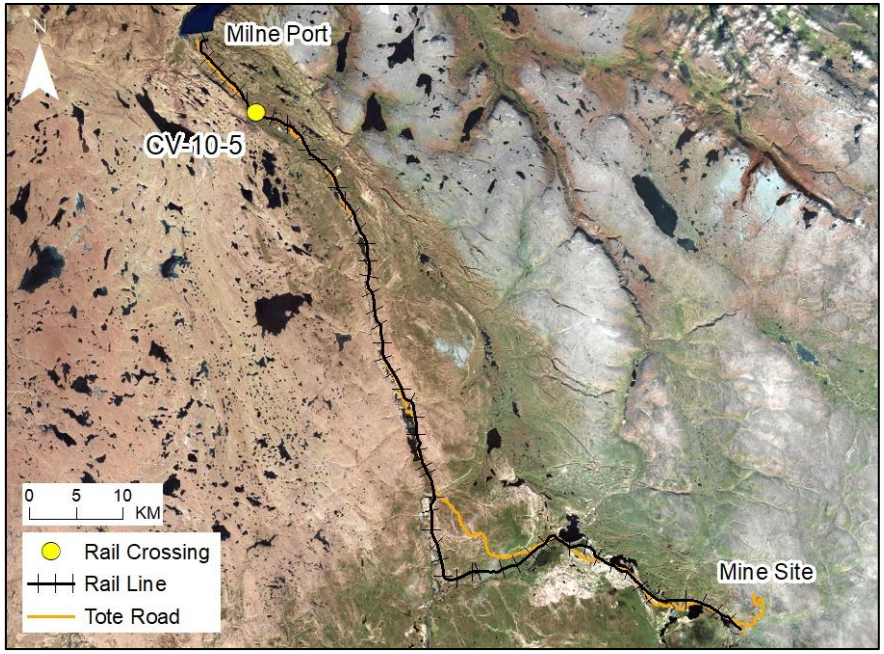
RAIL CV-10-5

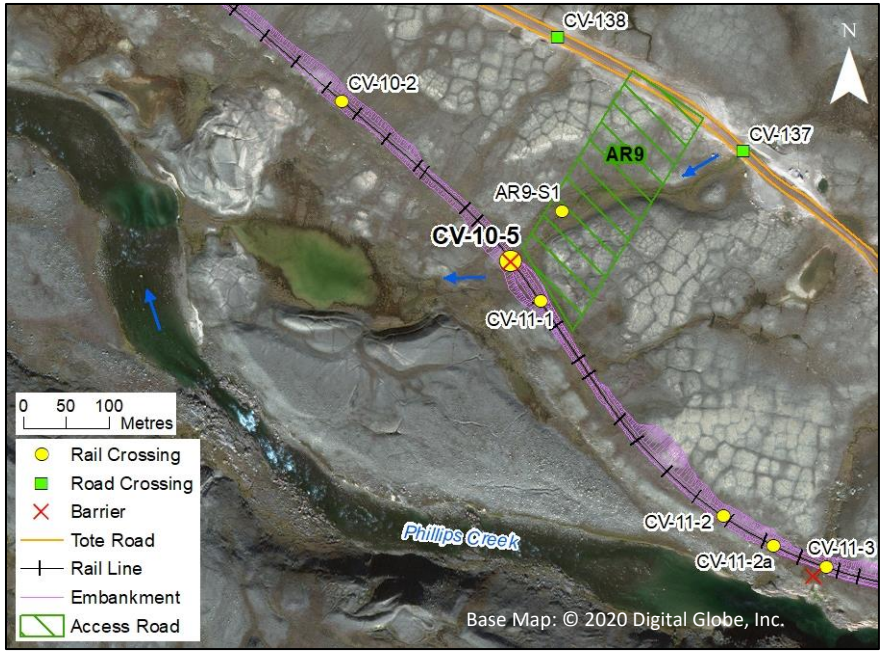
LOCATION AND CROSSING DESCRIPTION

Site ID:	CV-10-5	**Dates Surveyed:**	16-Jun-19 and 2-Jul-19	**Waterbody Type:**	Stream
Project Interaction:	Rail Culvert	**Centreline UTM Coordinates:**	17W 509853 E 7967818 N	**Culvert Length (m):**	30
Number of Barrels:	1	**Culvert Diameter/Span (mm):**	900	**Slope (%):**	5

GENERAL PHYSICAL CHARACTERISTICS

Flow Regime: Ephemeral **Stream Order:** 1 **Drainage Basin Area (km²):** 0.0199





SUMMARY

The North Rail crosses an unnamed ephemeral stream at CV-10-5 that is crossed by the Tote Road upstream at CV-137. The stream flows into a shallow pond and ultimately Phillips Creek. The channel at the crossing is very narrow (0.2 m) and was dry in spring 2019.

The rail crossing centerline is located on a steep hillside with a high gradient that acts as a permanent barrier to upstream fish passage. The steep gradient extends for at least 50 m downstream from the crossing centreline.

The crossing does not provide fish habitat due to the permanent barrier the crossing and the absence of upstream overwintering habitat.

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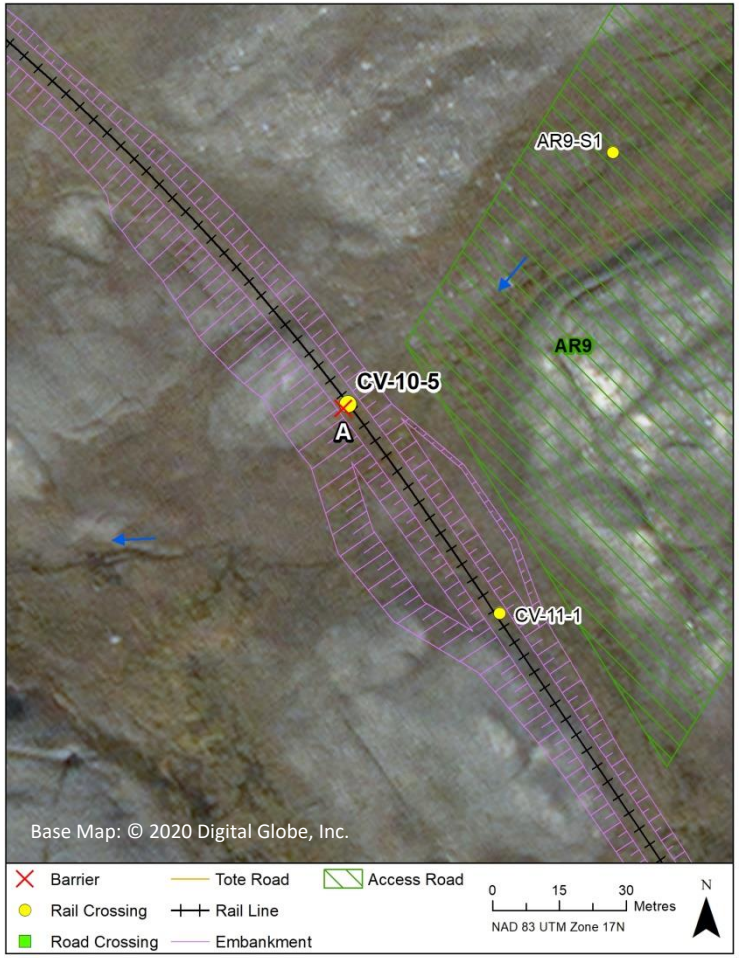
BARRIERS

Upstream/ Downstream	UTM		Barrier Type			Height (m)	Gradient (°)	Description	Site Label
	Easting	Northing	1	2	3				
At crossing	509852	7967817	HG				13	Permanent Barrier: High gradient at and downstream of the crossing centreline extending for at least 50 m	A



A

RAIL CV-10-5

FISH HABITAT POTENTIAL

Nearest Potential Overwintering Habitat - ARCH: Milne Inlet

Distance to Nearest Potential Overwintering Habitat - ARCH (km): 14.6

Overwintering Habitat Upstream of Site - ARCH (Y/N): No

Species	Spawning	Overwintering	Rearing	Adults Present
ARCH	N	N	N	N
NNST	N	N	N	N

COMMENTS

The crossing is located on a steep hillside that acts as a permanent barrier to upstream fish passage. The channel at the crossing is very narrow (0.2 m) and was dry in spring 2019. This site does not provide fish habitat.

RAIL CV-10-5

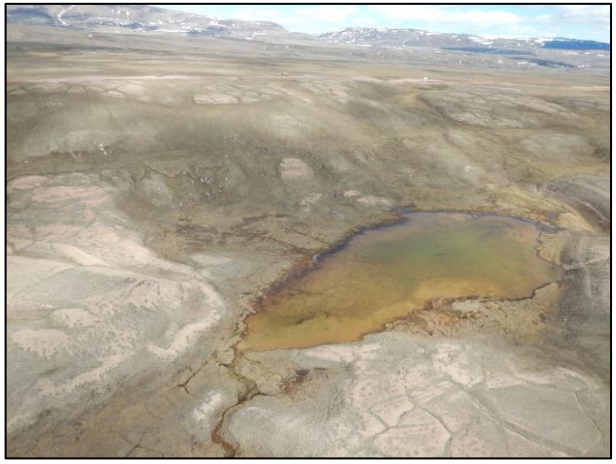
2-JUL-19

A

B

C

D



E

Photos 1. Ground photos taken at the crossing centreline in spring 2019: (A) facing upstream; (B) facing downstream; and (C) across (left bank looking at right bank). Aerial photo of crossing area (D) and downstream pond (E).