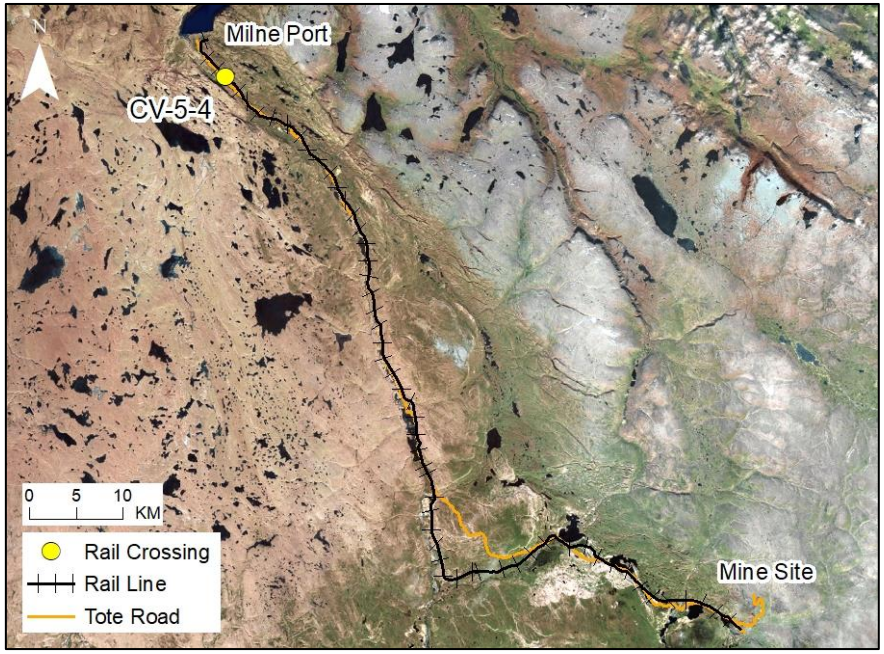
RAIL CV-5-4

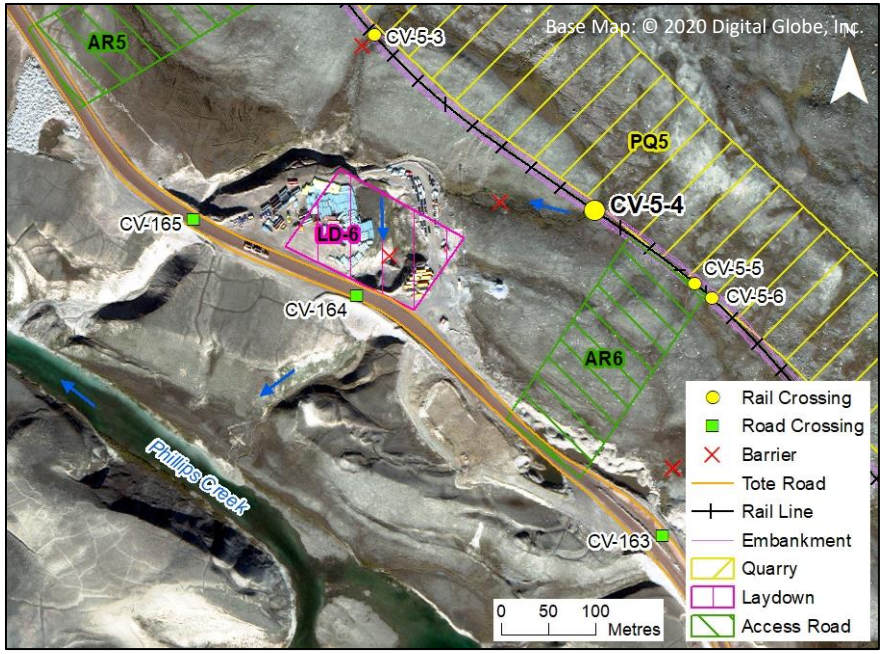
LOCATION AND CROSSING DESCRIPTION

Site ID:	CV-5-4	**Dates Surveyed:**	15-Jun-19	**Waterbody Type:**	Stream
Project Interaction:	Rail Daylight + Culvert	**Centreline UTM Coordinates:**	17W 506541 E 7971623 N	**Culvert Length (m):**	12
Number of Barrels:	1	**Culvert Diameter/Span (mm):**	900	**Slope (%):**	1

GENERAL PHYSICAL CHARACTERISTICS

Flow Regime:	Intermittent	**Stream Order:**	1	**Drainage Basin Area (km²):**	0.005





SUMMARY

The North Rail crosses an unnamed intermittent stream at CV-5-4 located approximately 480 m upstream of Tote Road Crossing CV-164. The stream flows west to existing laydown LD-06 and then south through the laydown to a Tote Road culvert at CV-164 and then ultimately discharging to Phillips Creek approximately 280 m southwest of the Tote Road. There was little water in the channel when surveyed in spring 2019.

There is a steep vertical gradient and subsurface flow through boulders approximately 100 m downstream of the rail crossing that represents a permanent barrier to upstream fish passage from Phillips Creek.

The crossing does not provide fish habitat due to the presence of permanent downstream barriers to fish passage and the absence of upstream overwintering habitat.

RAIL CV-5-4

BARRIERS

Upstream/ Downstream	UTM		Barrier Type			Height (m)	Gradient (°)	Description	Site Label
	Easting	Northing	1	2	3				
Downstream	506442	7971632	HG	SSF			14	Permanent Barrier: High gradient with subsurface flow under boulder cover	A

A

RAIL CV-5-4

FISH HABITAT POTENTIAL

Nearest Potential Overwintering Habitat - ARCH: Milne Inlet **Distance to Nearest Potential Overwintering Habitat - ARCH (km):** 8.9

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

FISHERIES DATA

Date: 15-Jun-19 **Temperature (°C):** NR **Gear Used:** Visual

Distance Fished (m): N/A **Duration Fished (seconds):** N/A

Species	Season	Effort (Seconds)	Fish Captured	Fish Observed	CPUE (No. Fish/60 Seconds)	Length Range (mm)
ARCH	Spring	N/A	0	0	-	-
NNST	Spring	N/A	0	0	-	**-**

COMMENTS

There was little flow at the crossing in spring 2019. Upstream passage from Phillips Creek is blocked by a high gradient/subsurface flow barrier downstream of the rail crossing.

RAIL CV-5-4

15-JUN-19

A

B

C

Photos 1. Photos taken at the crossing centreline in spring (A) facing upstream; (B) facing downstream; and (C) across (left bank looking at right bank).