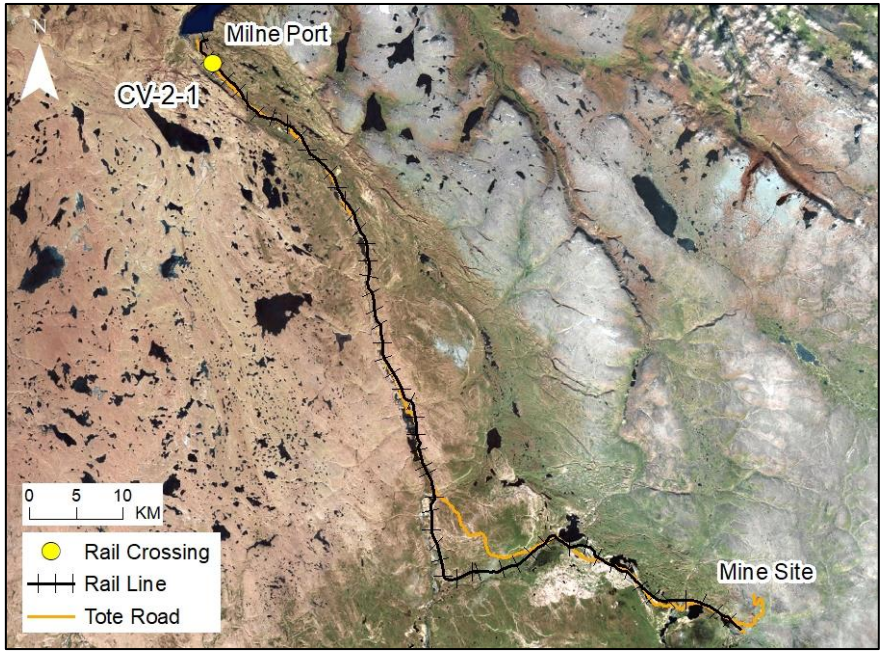
RAIL CV-2-1

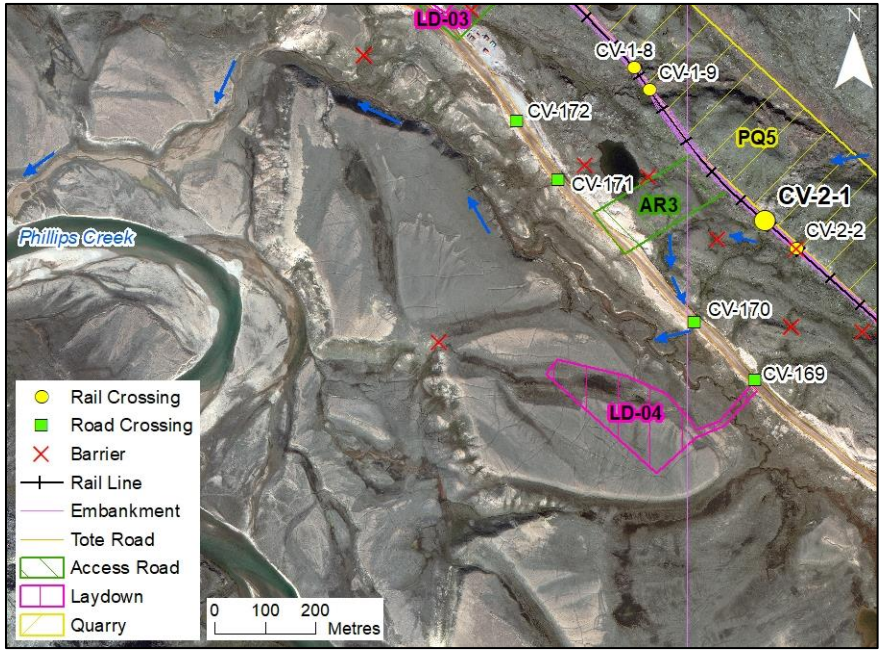
LOCATION AND CROSSING DESCRIPTION

Site ID:	CV-2-1	**Dates Surveyed:**	15-Jun-19	**Waterbody Type:**	Stream
Project Interaction:	Rail Daylight+Culvert	**Centreline UTM Coordinates:**	17W 505155 E 7973123 N	**Culvert Length (m):**	18
Number of Barrels:	1	**Culvert Diameter/Span (mm):**	900	**Slope (%):**	1

GENERAL PHYSICAL CHARACTERISTICS

Flow Regime:	Seasonal	**Stream Order:**	2	**Drainage Basin Area (km²):**	0.329





SUMMARY

The North Rail crosses an unnamed seasonal stream at CV-2-1, approximately 380 m upstream of the Tote Road. The stream flows southwest towards the Tote Road where it is diverted in a roadside ditch to a culvert at CV-170 that it shares with CV-2-2. Habitat at the crossing centerline was shallow, with low velocities over mainly cobble substrate.

This stream does not provide fish habitat due to the presence of a permanent barrier (high gradient with vertical drop and some sub-surface flow) approximately 150 m downstream of the rail crossings and a lack of upstream overwintering habitat.

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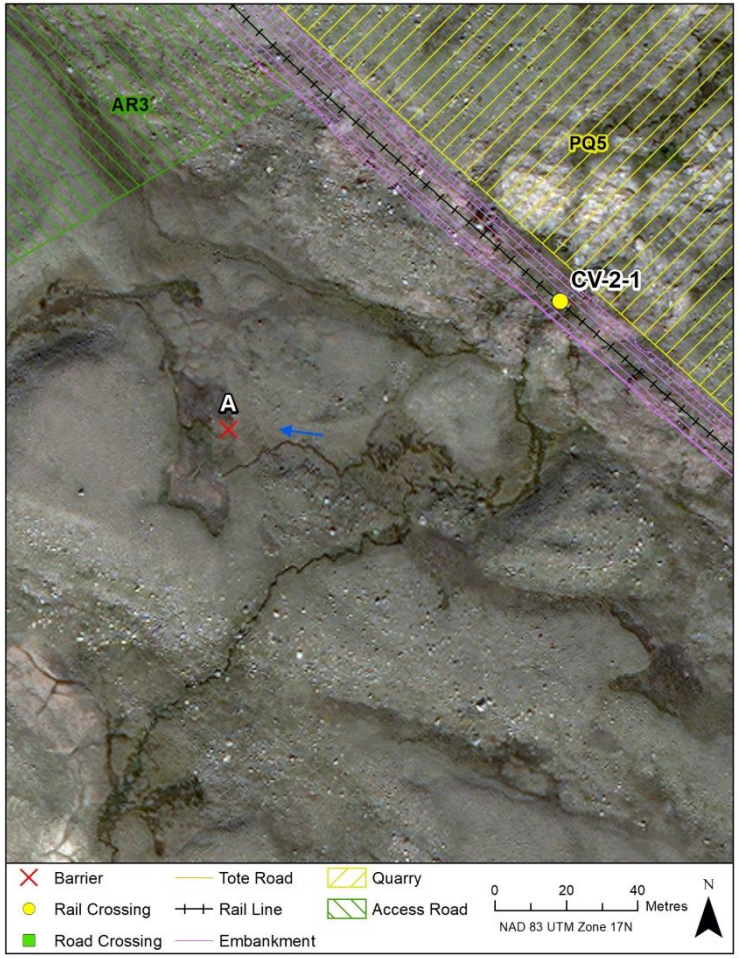
BARRIERS

Upstream/ Downstream	UTM		Barrier Type			Height (m)	Gradient (°)	Description	Site Label
	Easting	Northing	1	2	3				
Downstream	505062	7973087	HG	VD	SSF		25	Permanent Barrier: High gradient barrier with a vertical drop and sections of sub-surface flow	A



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FISH HABITAT POTENTIAL

Nearest Potential Overwintering Habitat - ARCH: Milne Inlet **Distance to Nearest Potential Overwintering Habitat - ARCH (km):** 7.7

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

COMMENTS

There is no fish habitat at this crossing due to the presence of an impassable high gradient/vertical drop barrier downstream and the absence of overwintering habitat upstream.

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15-JUN-19

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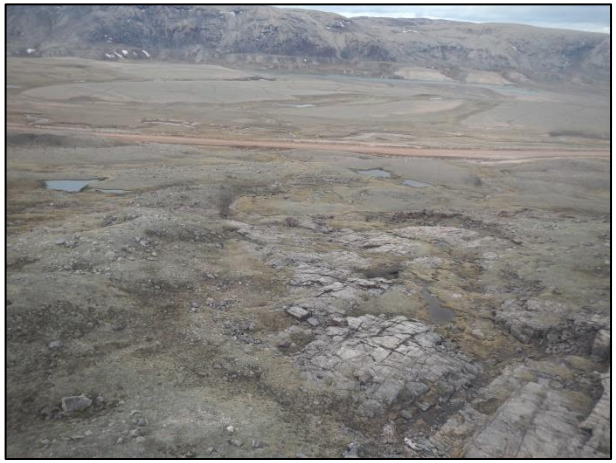

B

C

D

Photos 1. Aerial photos of the crossing in spring 2019: (A) facing upstream; (B) facing downstream; (C) at the crossing site. Ground photo from summer 2018 at the centreline facing upstream (D).