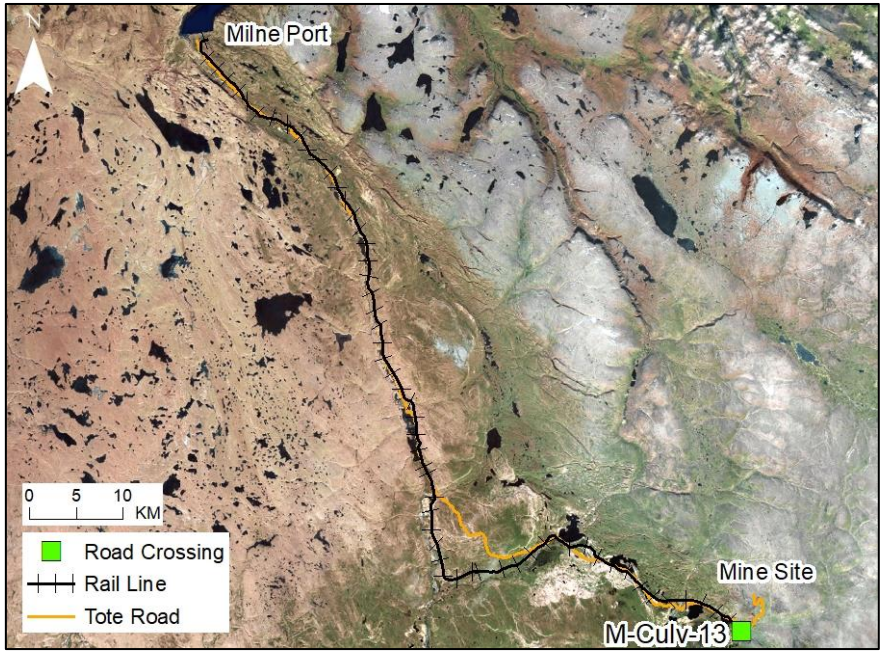
ROAD M-CULV-13

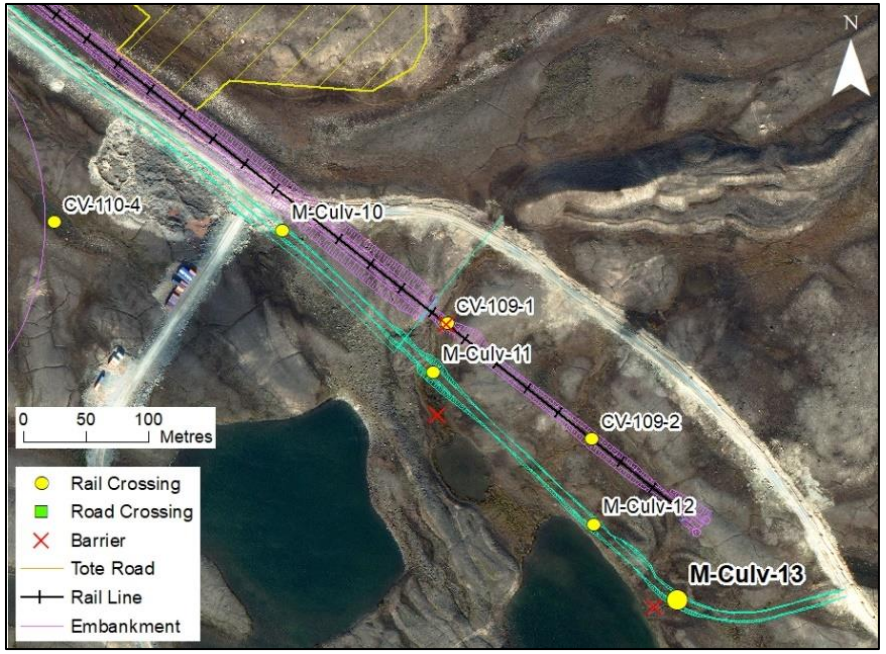
LOCATION AND CROSSING DESCRIPTION

Site ID:	M-Culv-13	**Dates Surveyed:**	27-Jun-19	**Waterbody Type:**	Stream
Project Interaction:	Road Culvert	**Centreline UTM Coordinates:**	17W 562044 E 7912124 N	**Culvert Length (m):**	13.7
Number of Barrels:	1	**Culvert Diameter/Span (mm):**	600	**Slope (%):**	6.3

GENERAL PHYSICAL CHARACTERISTICS

Flow Regime: Intermittent **Stream Order:** 1 **Drainage Basin Area (km^2):** 0.117





SUMMARY

An access road will cross an unnamed intermittent stream at M-Culv-13 that drains southwest to a small lake 30 m downstream. The stream collects local snowmelt from a steep hill during freshet and was dry in spring 2019. There is a permanent subsurface flow barrier where the hill gradient becomes greatest (20 m downstream from the centreline).

There is no fish habitat in this stream.

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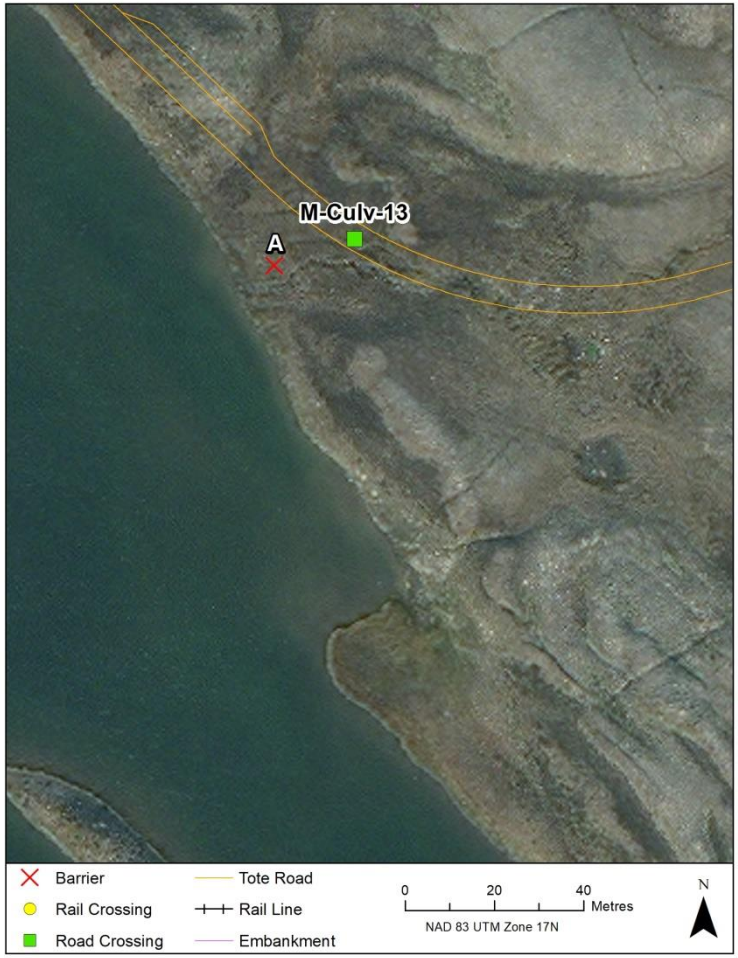
BARRIERS

Upstream/ Downstream	UTM		Barrier Type			Height (m)	Gradient (°)	Description	Site Label
	Easting	Northing	1	2	3				
Downstream	562026	7912118	SSF					Permanent Barrier: Flow becomes subsurface at steeper point on hill.	A



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ROAD M-CULV-13

GENERAL HABITAT CHARACTERISTICS

Channel Confinement: UC **Stream Morphology:** Sinuous **Riparian Vegetation Type (%):** Grass 80, Other 20

Centreline	Height (m)	Stability	Materials (%)	Shape
LHB	0.20	Moderate	CGS 50, Organic 50	Sloping
RHB	0.20	Moderate	CGS 50, Organic 50	Sloping

HYDROLOGY & HABITAT CHARACTERISTICS: 27-JUN-19

Wetted/Dry/Shallow (<0.02 m)/Unconnected Pools: Wetted **Stage:** Low

OTHER NOTES / OBSERVATIONS

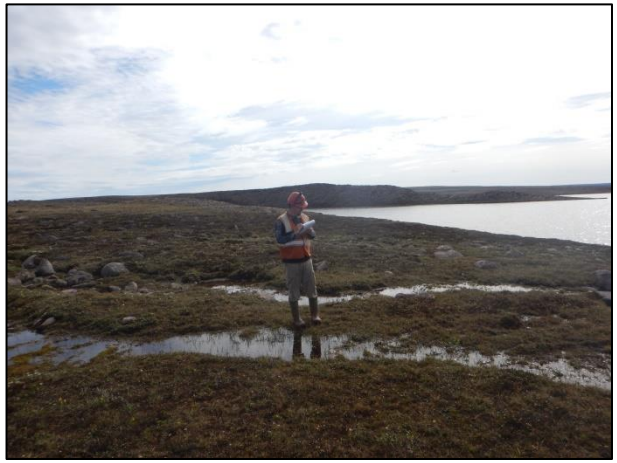
The downstream lake may have sufficient depths to support overwintering, but a downstream subsurface flow barrier prevents fish access to the M-Culv-13 site.

ROAD M-CULV-13

27-JUN-19

A

B



C

Photos 1. Photos of M-Culv-13 at the crossing centreline from spring 2019; (A) facing upstream; (B) facing downstream; and (C) facing across (from the left bank looking towards the right bank).