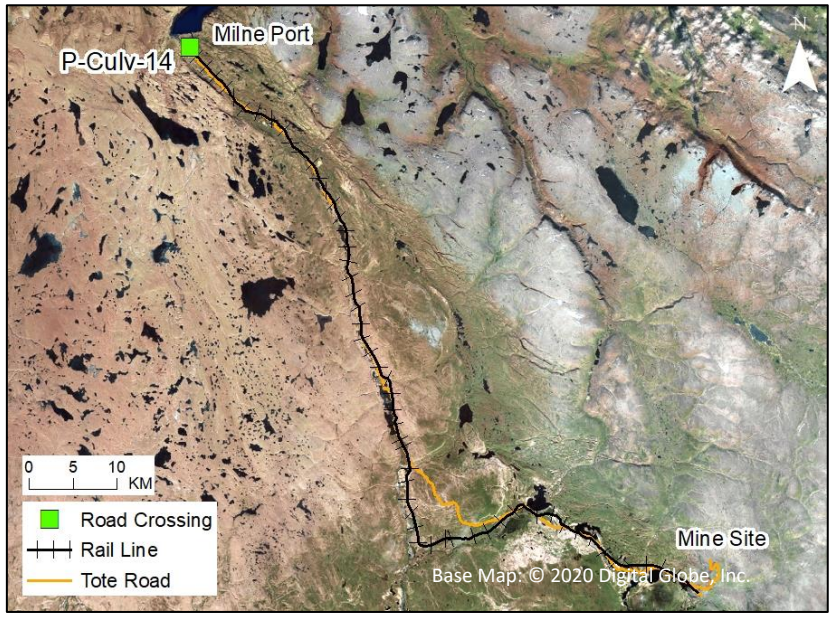
WATER MANAGEMENT P-CULV-14

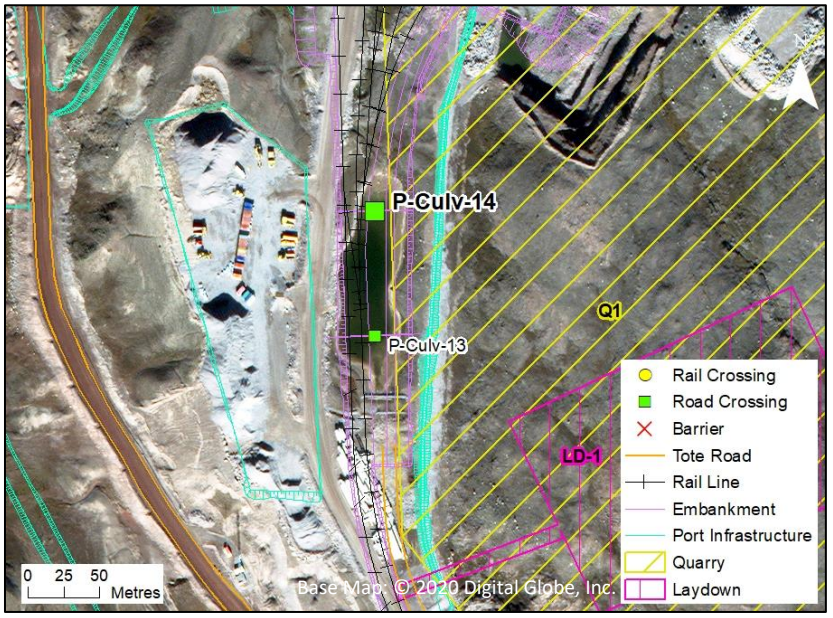
LOCATION AND CROSSING DESCRIPTION

Site ID:	P-Culv-14	**Dates Surveyed:**	18-Jun-19	**Waterbody Type:**	Pond
Project Interaction:	Pond Infilling + Culvert	**Centreline UTM Coordinates:**	17W 503829 E 7974767 N	**Culvert Length (m):**	53.8
Number of Barrels:	1	**Culvert Diameter/Span (mm):**	600	**Slope (%):**	2.8

GENERAL PHYSICAL CHARACTERISTICS

Surface Area (m^2):	6,220	**Shoreline Length (m):**	379	**Drainage Basin Area (m^2):**	0.048
Maximum Depth (m):	1.0 (estimated)			**Mean Depth (m):**	-





SUMMARY

Sites P-Culv-14 and P-Culv-13 are 80 m apart on the same pond located between the proposed southwest boundary of the Q1 quarry expansion and the existing quarry access road. The pond will be infilled by overlapping infrastructure (rail, quarry expansion and quarry access road) and culverts will be installed at these two sites to manage water flows. The pond has no defined inflow or outflow and is at least partially the result of diffuse melt and rainwater accumulating east of the existing access road with no culvert for drainage. The pond would not likely exist in the absence of the road.

There is no fish habitat in this pond.

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FISH HABITAT POTENTIAL

Nearest Potential Overwintering Habitat - ARCH: None

Distance to Nearest Potential Overwintering Habitat - ARCH (km): N/A

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

INFILL HABITAT

Area	Fines (%)	Gravel (%)	Small Cobble (%)	Large Cobble (%)	Boulders (%)
Nearshore	10	10	80	0	0
Offshore	80	0	20	0	0

OTHER NOTES/OBSERVATIONS

Fish were not observed in this small, shallow pond. The pond lacks a defined inflow or outflow, is isolated from other waterbodies, and lacks sufficient depth for overwintering of either fish species.

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18-JUN-19

A

B

C

Photos 1. Photos of the pond in spring: (A) facing east; (B) facing south; and (C) facing north.