



GN AR # 03 – ROAD CLOSURES FOR MIGRATING CARIBOU	
Department	Environment
Organization	Government of Nunavut
Subject/Topic	Road Closures for Migrating Caribou
Term and Condition	28 (Project Certificate No. 008)
References	<ul style="list-style-type: none"> • Agnico Eagle Mines (AEM) Ltd. (2019a). Meadowbank Division Terrestrial Ecosystem Management Plan, Version 7. • Agnico Eagle Mines (AEM) Ltd. (2019b). Submission to NIRB. Final Written Statement Responses Whale Tail Pit – Expansion Project. • Agnico Eagle Mines (AEM) Ltd. (2019c). Technical Comment Responses Whale Tail Pit – Expansion Project. Submitted to the Nunavut Impact Review Board. • Agnico Eagle Mines (AEM) Limited. (2022). Meadowbank Complex 2021 Annual Report, Appendix 47 – Meadowbank and Whale Tail 2021 Wildlife Monitoring Summary Report. • Berger, J. et al. (2008). Protecting migration corridors: challenges and optimism for Mongolian saiga. PLoS Biology 6(7):e165. doi: 10.1371/journal.pbio.0060165 PMID: 18666827 • Berger, J. (2004). The last mile: how to sustain long-distance migration in mammals. Conservation Biology 2004; 18(2):320–31. • Boulanger, J., R. Kite, M. Campbell, J. Shaw and D.S. Lee. (2020). Analysis of Caribou Movements Relative to the Meadowbank Mine and Roads During Spring Migration. Government of Nunavut, Department of Environment, Technical Report Series – No:01-2020. 31 July 2020. • Bolger, D. et al. (2008). The need for integrative approaches to understand and conserve migratory



Project roads should have been automatically closed to allow passage of caribou but were not (see table 1 below). The GN is also concerned that the Proponent used alternative traffic management measures, such as partial closures or speed restrictions during periods when roads should have been automatically and fully closed. Finally, the Annual Report does not provide information on how long roads remained closed on specific days and what factors (information, consultations, etc.) led to reopening of the roads.

This is the fourth consecutive Annual Report (covering the Project's entire life to date) for which the GN has expressed concerns about noncompliance with the Project Certificate due to incomplete/inconsistent application of the TEMP's caribou decision trees (GN 2019, 2020, 2021). These caribou protection measures were submitted as evidence by the Proponent during NIRB's Review of the Project and were integral to intervenors' reviews of the Project's Final Environmental Impact Statement (FEIS). Failure to implement them fully constitutes a breach of trust and undermines the integrity of the environmental assessment process in Nunavut. The GN notes that the NIRB has previously directed the Proponent to properly implement the caribou decision trees, stating for example that:

"..... [T]he Proponent should ensure that road closures as a mitigation measure are being applied according to thresholds established in the TEMP and the definitions of essential and non-essential traffic. This information should be included in the 2019 Annual Report."

(NIRB 2019)

The GN feels that the Proponent is non-compliant with term and condition 28 of the Project Certificate (008) by not fully and consistently implementing the TEMP. The GN urges the NIRB to take immediate action to enforce term and condition 28 of the Project Certificate with respect to these matters. There is growing evidence that migrating caribou are being disrupted by the Project' roads and that the automatic road closures required under the TEMP are able to mitigate this disruption.



whether the road closure days presented in table 9 of the report represent 24 hr closures or shorter periods. The duration of closure and the factors that led to each reopening must be provided in annuals reports in-order for reviewers to assess compliance with the TEMP. In this regard, the GN notes a commitment made by the Proponent during the NIRB's review of the Whale Tail Expansion Project, to provide this type of information (AEM 2019c – Response to GN TRC #4).

Table 1. Days in 2021 when caribou, above Group Size Thresholds (GST) in the TEMP (AEM 2019a), were observed within 1.5 km of Project roads and should have triggered automatic road closure. (Source data: AEM 2022, Appendix A)

Road	Date(s) When Caribou Above GST Observed Within 1.5 km of Road.	Road Status
AWAR	April 1	Open
	April 12 and 13	Speed restrictions
	May 7 to 17	Speed restrictions
Whale Tail Haul Road	April 13	Speed restrictions
	April 16	Speed restrictions
	April 17	Speed restrictions
	April 23	Speed restrictions
	April 25	Speed restrictions
	May 6 and 7	Speed restrictions
	May 21	Speed restrictions

There is a growing body of evidence that the migration of regional caribou herds is being disrupted by the Project's roads and that road closures are an effective means of mitigating this impact. For example:



a) Road survey data for the Project show that a vast majority of migrating caribou are observed on the side of a road facing the on-coming migration. This suggests that caribou movements are being blocked the road and/or its traffic and consequently caribou are concentrating near the road as they attempt to cross it. An example of this is shown in figure 1 using the Proponent's 2019 road survey data for the Whale Tail Haul Road (HR) and AWAR. A similar pattern of caribou distribution is seen in all years for which data are available.

Figure 1. Frequency of caribou observations, made during road surveys, on the east and west sides of the Whale Tail haul road (1a) and All-Weather-Access-Road (1b) during the spring migration. Similar data presented for the Whale Tail haul road (1c) and AWAR (1d) for the fall migration. (Data derived from AEM 2020, Appendices A and B)

Figure 1a.

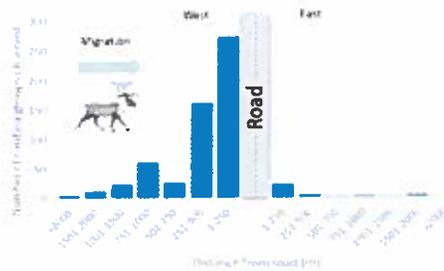


Figure 1b.

