

## **Appendix 10-4**

# Summary of Potential Operations and Maintenance Effects on the Socio-Economic and Cultural Environment Valued Components Prior to Mitigation

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**Appendix 10-4: Summary of Potential Operations and Maintenance Effects on the Socio-Economic and Cultural Environment Valued Components Prior to Mitigation**

Valued Component <sup>1</sup>	Potential Effect	Potential Operations and Maintenance Effects Before Mitigation					Level of Potential Effect <sup>2</sup>
		Extent		Frequency	Reversibility	Ecological Context	
		Magnitude/Geographic Extent	Duration				
Travel Routes	Temporary blockage of access to land/waterway travel routes bisected by the proposed all-season road route in the Local Assessment Area (maintenance activities).	No measureable effect above baseline.	Short-term activities such as the time required to complete discrete component.	Occurs once over the duration of the disturbance.	Readily reversible over a short period of time.		Low
		Level I	Level I	Level I	Level I	N/A	
	Temporary disruption of traditional land/resource use activities due to blockage of access to travel routes bisected by the Project (maintenance activities).	No measureable effect above baseline.	Short-term activities such as the time required to complete discrete component.	Occurs once over the duration of the disturbance.	Readily reversible over a short period of time.		Low
		Level I	Level I	Level I	Level I	N/A	
Human Health and Safety	On-going risk to health of road users from collisions with other road users, maintenance equipment/ vehicles and wildlife.	Measurable effect marginally beyond established thresholds of acceptable change.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Project-specific effects are permanent.		Low
		Level II	Level III	Level II	Level III	N/A	
	On-going risk to health of road users and trail users at travel route crossing locations.	Measurable effect marginally beyond established thresholds of acceptable change.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Project-specific effects are permanent.		Low
		Level II	Level III	Level II	Level III	N/A	

Valued Component <sup>1</sup>	Potential Effect	Potential Operations and Maintenance Effects Before Mitigation					Level of Potential Effect <sup>2</sup>
		Extent		Frequency	Reversibility	Ecological Context	
		Magnitude/Geographic Extent	Duration				
	On-going risk to health of community members and road users from changes to drinking water quality, air quality and noise exposure levels.	No measurable effect above baseline.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Project-specific effects are permanent.		Low
		Level I	Level III	Level II	Level III	N/A	
	On-going risk to the health of community members and road users from changes to the availability or quality of country foods.	No measurable effect above baseline.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Project-specific effects are permanent.		Low
		Level I	Level III	Level II	Level III	N/A	

**Notes:**

1 Potential pre-mitigation effects of Project construction on hunting, trapping, fishing and gathering, and tourism are those pre-mitigation effects as identified and assessed for Valued Components linked to hunting, trapping, fishing and gathering, and tourism (e.g., moose, harvested fish species, plant species of special interest, surface water) as indicated in Appendices 7-2, 8-2 and 9-9.

2 The level of potential effect was ranked as being ‘low’, ‘moderate’ or ‘high’ based on the extent, frequency, reversibility and ecological context of the potential effect prior to the implementation of mitigation measures, and the probability of the occurrence of the predicted effect. A predicted effect was considered to be ‘low’ if there is a low probability of occurrence, ‘moderate’ if it has a moderate probability of occurrence, and ‘high’ if there is a high probability of occurrence.