

Appendix 10-3

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

Appendix 10-3: Summary of Potential Construction Effects on the Socio-Economic and Cultural Environment Valued Components Prior to Mitigation

Valued Component ¹	Potential Effect	Potential Construction Effects Before Mitigation					Level of Potential Effect ²
		Extent		Frequency	Reversibility	Ecological Context	
		Magnitude/ Geographic Extent	Duration				
Cultural, Heritage and Archaeological Resources	Loss and damage of known and unknown cultural, heritage and archaeological sites and objects in the Local Assessment Area during construction.	No measureable effect above baseline.	The potential effect is likely to persist until the completion of construction and rehabilitation activities.	Occurs once over the duration of the disturbance.	Project-specific effects are permanent.		Low
		Level I	Level II	Level I	Level III	N/A	
Travel Routes	Temporary blockage of access to land and waterway travel routes bisected by the proposed all-season road route in the Local Assessment Area.	Measurable effect marginally beyond established thresholds of acceptable change.	Short-term activities such as the time required to complete a discrete component.	Occurs at sporadic or intermittent intervals.	Readily reversible over a short period of time.		Low
		Level II	Level I	Level II	Level I	N/A	
	Temporary disruption of traditional land and resource use activities due to blockage of access to travel routes bisected by the Project.	Measurable effect marginally beyond established thresholds of acceptable change.	Short-term activities such as the time required to complete a discrete component.	Occurs at sporadic or intermittent intervals.	Readily reversible over a short period of time.		Low
		Level II	Level I	Level II	Level I	N/A	
Human Health and Safety	Temporary risk to the health and safety of construction workers and community members from road and bridge construction activities (e.g., equipment/machinery/ vehicle operation, rock blasting).	Measurable effect marginally beyond established thresholds of acceptable change.	The potential effect is likely to persist until the completion of construction and rehabilitation activities (i.e., a timeframe of 8 to 10 years).	Occurs at sporadic or intermittent intervals.	Readily reversible over a short period of time.		Low
		Level II	Level II	Level II	Level I	N/A	

Valued Component ¹	Potential Effect	Potential Construction Effects Before Mitigation					Level of Potential Effect ²
		Extent		Frequency	Reversibility	Ecological Context	
		Magnitude/ Geographic Extent	Duration				
	Temporary risk to the health of community members and construction workers from changes to drinking water quality, air quality and noise exposure levels from construction activities.	Measurable effect marginally beyond established thresholds of acceptable change.	The potential effect is likely to persist until the completion of construction and rehabilitation activities (i.e., a timeframe of 8 to 10 years).	Occurs at sporadic or intermittent intervals.	Readily reversible over a short period of time.		Low
		Level II	Level II	Level II	Level I	N/A	
	Temporary risk to the health of community members and construction workers from changes to the availability or quality of country foods.	Measurable effect marginally beyond established thresholds of acceptable change.	The potential effect is likely to persist until the completion of construction and rehabilitation activities (i.e., a timeframe of 8 to 10 years).	Occurs at sporadic or intermittent intervals.	Readily reversible over a short period of time.		Low
		Level II	Level II	Level II	Level I	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 VCs 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.