

Appendix 9-10
Summary of Potential Operations and
Maintenance Effects on Terrestrial
Valued Components Prior to
Mitigation

Appendix 9-10: Summary of Potential Operations and Maintenance Effects on Terrestrial Valued Components Prior to Mitigation

Valued Component	Potential Effect	Operations and Maintenance Effects Before Mitigation					Level of Potential Effect ¹
		Extent		Frequency	Reversibility	Ecological Context	
		Magnitude/Geographic Extent	Duration				
Vegetation Communities and Plant Species of Cultural Importance	Introduction and spread of non-native and invasive species in the Local Assessment Area during operations and maintenance.	Measurable effect marginally beyond established thresholds of acceptable change.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Potential effect is potentially reversible but over a long period of time.	No adverse ecosystem effects.	Moderate
		Level II	Level III	Level II	Level II	Level I	
	Loss/impairment of Vegetation Communities and/ or Plant Species of Cultural Importance in the Project Footprint from accidental releases of fuels or hazardous substances during operations and maintenance.	No measureable effect above baseline.	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.	No adverse ecosystem effects.	Low
		Level I	Level I	Level II	Level I	Level I	
	Loss/impairment of Vegetation Communities and/ or Plant Species of Cultural Importance in the Project Footprint from herbicide application during operations and maintenance.	No measureable effect above baseline.	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.	No adverse ecosystem effects.	Low
		Level I	Level I	Level II	Level I	Level I	

Valued Component	Potential Effect	Operations and Maintenance Effects Before Mitigation					Level of Potential Effect ¹
		Extent		Frequency	Reversibility	Ecological Context	
		Magnitude/Geographic Extent	Duration				
	Increased risk of forest fire in the Local and Assessment Area during operations and maintenance.	No measureable effect above baseline.	Short-term activities such as the time required to complete a discrete component.	Occurs at sporadic or intermittent intervals.	Potential effect is potentially reversible but over a long period of time.	No adverse ecosystem effects.	Low
		Level I	Level I	Level II	Level II	Level I	
Boreal Woodland Caribou	Temporary sensory disturbance.	Measurable effect marginally beyond established thresholds of acceptable change.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Readily reversible over a short period of time.	No adverse ecosystem effects.	Moderate
		Level II	Level III	Level II	Level I	Level I	
	Increased mortality due to vehicle collisions.	No measureable effect above baseline.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Project-specific effects are permanent.	No adverse ecosystem effects.	Low
		Level I	Level III	Level II	Level III	Level I	
	Increased mortality due to changes in hunting access.	No measureable effect above baseline.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Project-specific effects are permanent.	No adverse ecosystem effects.	Low
		Level I	Level III	Level II	Level III	Level I	
	Increased mortality due to changes in predation.	No measureable effect above baseline.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Project-specific effects are permanent.	No adverse ecosystem effects.	Low
		Level I	Level III	Level II	Level III	Level I	
	Introduction of disease/parasitism (i.e., brainworm [<i>P. tenius</i>] from white-tailed deer).	No measureable effect above baseline.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Project-specific effects are permanent.	No adverse ecosystem effects.	Low
		Level I	Level III	Level II	Level III	Level I	

Valued Component	Potential Effect	Operations and Maintenance Effects Before Mitigation					Level of Potential Effect ¹	
		Extent		Frequency	Reversibility	Ecological Context		
		Magnitude/Geographic Extent	Duration					
Moose	Temporary sensory disturbance.	Measurable effect marginally beyond established thresholds of acceptable change.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Readily reversible over a short period of time.	No adverse ecosystem effects.	Moderate	
		Level II	Level III	Level II	Level I	Level I		
	Increased mortality due to vehicle collisions.	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.	No adverse ecosystem effects.	Low	
		Level II	Level III	Level II	Level III	Level I		
	Increased mortality due to changes in hunting access.	No measureable effect above baseline.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Project-specific effects are permanent.	No adverse ecosystem effects.	Low	
		Level I	Level III	Level II	Level III	Level I		
	Increased mortality due to changes in predation.	No measureable effect above baseline.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Project-specific effects are permanent.	No adverse ecosystem effects.	Low	
		Level I	Level III	Level II	Level III	Level I		
	Introduction of disease/parasitism (i.e., brainworm [<i>P. tenius</i>] from white-tailed deer).	No measureable effect above baseline.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Project-specific effects are permanent.	No adverse ecosystem effects.	Low	
		Level I	Level III	Level II	Level III	Level I		
	Beaver	Temporary sensory disturbance.	No measureable effect above baseline.	Timeframe of greater than 10 years.	Occurs at sporadic or intermittent intervals.	Readily reversible over a short period of time.	No adverse ecosystem effects.	Low
			Level I	Level III	Level II	Level I	Level I	

Valued Component	Potential Effect	Operations and Maintenance Effects Before Mitigation					Level of Potential Effect ¹
		Extent		Frequency	Reversibility	Ecological Context	
		Magnitude/Geographic Extent	Duration				
Marten	Temporary sensory disturbance.	No measureable effect above baseline.	Timeframe greater than 10 years.	Occurs at sporadic or intermittent intervals.	Readily reversible over a short period of time.	No adverse ecosystem effects.	Low
		Level I	Level III	Level II	Level I	Level I	
Forest Birds	Temporary sensory disturbance.	No measureable effect above baseline.	Timeframe greater than 10 years.	Occurs at sporadic or intermittent intervals.	Readily reversible over a short period of time.	No adverse ecosystem effects.	Low
		Level I	Level III	Level II	Level I	Level I	
Waterbirds	Temporary sensory disturbance.	No measureable effect above baseline.	Timeframe greater than 10 years.	Occurs at sporadic or intermittent intervals.	Readily reversible over a short period of time.	No adverse ecosystem effects.	Low
		Level I	Level III	Level II	Level I	Level I	
Ecologically Sensitive Wildlife Sites	Temporary sensory disturbance.	No measureable effect above baseline.	Timeframe greater than 10 years.	Occurs at sporadic or intermittent intervals.	Readily reversible over a short period of time.	No adverse ecosystem effects.	Low
		Level I	Level III	Level II	Level I	Level I	
Herptiles	Increased mortality due to vehicle collisions.	No measureable effect above baseline.	Timeframe greater than 10 years.	Occurs at sporadic or intermittent intervals.	Project-specific effects are permanent.	No adverse ecosystem effects.	Low
		Level I	Level III	Level II	Level III	Level I	

Valued Component	Potential Effect	Operations and Maintenance Effects Before Mitigation					Level of Potential Effect ¹
		Extent		Frequency	Reversibility	Ecological Context	
		Magnitude/Geographic Extent	Duration				
	Alteration of breeding or feeding habitat due to operation activities located near waterbody or bog/fen areas having suitable habitat for the species.	No measureable effect above baseline.	Timeframe greater than 10 years.	Occurs at sporadic or intermittent intervals.	Project-specific effects are permanent.	No adverse ecosystem effects.	Low
		Level I	Level III	Level II	Level III	Level I	

Note: 1 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.