

Appendix 16-A

Risk Ratings of Project Effects on Wildlife Valued Components

HARPER CREEK PROJECT

**Application for an Environmental Assessment Certificate /
Environmental Impact Statement**

APPENDIX 16-A. RISK RATINGS OF PROJECT EFFECTS ON WILDLIFE VALUED COMPONENTS

Table 16-A1. Risk Ratings of Habitat Effects on Wildlife Valued Components

Project Phase	Category	Amphibians	Migratory Birds	Raptors	Bats	Fur-bearers	Large Mammals	Ungulates
Construction	Concrete production	●	●	●	●	●	●	●
	Dangerous goods and hazardous materials	●	●	●	●	●	●	●
	Environmental management and monitoring	●	●	●	●	●	●	●
	Equipment	●	●	●	●	●	●	●
	Explosives	●	●	●	●	●	●	●
	Fuel supply, storage and distribution	●	●	●	●	●	●	●
	Open pit	●	●	●	●	●	●	●
	Potable water supply	●	●	●	●	●	●	●
	Power supply	●	●	●	●	●	●	●
	Processing	●	●	●	●	●	●	●
	Procurement and labour	●	●	●	●	●	●	●
	Project Site development	●	●	●	●	●	●	●
	Rail load-out facility	●	●	●	●	●	●	●
	Roads	●	●	●	●	●	●	●
	Stockpiles	●	●	●	●	●	●	●
	Tailings management	●	●	●	●	●	●	●
	Temporary construction camp	●	●	●	●	●	●	●
	Traffic	●	●	●	●	●	●	●
	Waste disposal	●	●	●	●	●	●	●
Water management	●	●	●	●	●	●	●	
Operations 1	Concentrate transport	●	●	●	●	●	●	●
	Dangerous goods and hazardous materials	●	●	●	●	●	●	●
	Environmental management and monitoring	●	●	●	●	●	●	●
	Equipment	●	●	●	●	●	●	●
	Fuel supply, storage and distribution	●	●	●	●	●	●	●
	Mining	●	●	●	●	●	●	●
	Ore processing	●	●	●	●	●	●	●
	Potable water supply	●	●	●	●	●	●	●

Table 16-A1. Risk Ratings of Habitat Effects on Wildlife Valued Components

Project Phase	Category	Amphibians	Migratory Birds	Raptors	Bats	Fur-bearers	Large Mammals	Ungulates
Operations 1 <i>(cont'd)</i>	Power supply	●	●	●	●	●	●	●
	Processing	●	●	●	●	●	●	●
	Procurement and labour	●	●	●	●	●	●	●
	Rail load-out facility	●	●	●	●	●	●	●
	Reclamation and decommissioning	●	●	●	●	●	●	●
	Stockpiles	●	●	●	●	●	●	●
	Tailings management	●	●	●	●	●	●	●
	Traffic	●	●	●	●	●	●	●
	Waste disposal	●	●	●	●	●	●	●
	Water management	●	●	●	●	●	●	●
Operations 2	Processing	●	●	●	●	●	●	●
	Reclamation and decommissioning	●	●	●	●	●	●	●
	Tailings management	●	●	●	●	●	●	●
	Water management	●	●	●	●	●	●	●
Closure	Environmental management and monitoring	●	●	●	●	●	●	●
	Open pit	●	●	●	●	●	●	●
	Procurement and labour	●	●	●	●	●	●	●
	Reclamation and decommissioning	●	●	●	●	●	●	●
	Stockpiles	●	●	●	●	●	●	●
	Tailings management	●	●	●	●	●	●	●
	Waste disposal	●	●	●	●	●	●	●
Post-Closure	Environmental management and monitoring	●	●	●	●	●	●	●
	Open pit	●	●	●	●	●	●	●
	Procurement and labour	●	●	●	●	●	●	●
	Stockpiles	●	●	●	●	●	●	●
	Tailings management	●	●	●	●	●	●	●

Table 16-A2. Risk Ratings of Disturbance Effects on Wildlife Valued Components

Project Phase	Category	Amphibians	Migratory Birds	Raptors	Bats	Fur-bearers	Large Mammals	Ungulates
Construction	Concrete production	●	●	●	●	●	●	●
	Dangerous goods and hazardous materials	●	●	●	●	●	●	●
	Environmental management and monitoring	●	●	●	●	●	●	●
	Equipment	●	●	●	●	●	●	●
	Explosives	●	●	●	●	●	●	●
	Fuel supply, storage and distribution	●	●	●	●	●	●	●
	Open pit	●	●	●	●	●	●	●
	Potable water supply	●	●	●	●	●	●	●
	Power supply	●	●	●	●	●	●	●
	Processing	●	●	●	●	●	●	●
	Procurement and labour	●	●	●	●	●	●	●
	Project Site development	●	●	●	●	●	●	●
	Rail load-out facility	●	●	●	●	●	●	●
	Roads	●	●	●	●	●	●	●
	Stockpiles	●	●	●	●	●	●	●
	Tailings management	●	●	●	●	●	●	●
	Temporary construction camp	●	●	●	●	●	●	●
	Traffic	●	●	●	●	●	●	●
	Waste disposal	●	●	●	●	●	●	●
Water management	●	●	●	●	●	●	●	
Operations 1	Concentrate transport	●	●	●	●	●	●	●
	Dangerous goods and hazardous materials	●	●	●	●	●	●	●
	Environmental management and monitoring	●	●	●	●	●	●	●
	Equipment	●	●	●	●	●	●	●
	Fuel supply, storage and distribution	●	●	●	●	●	●	●
	Mining	●	●	●	●	●	●	●
	Ore processing	●	●	●	●	●	●	●
	Potable water supply	●	●	●	●	●	●	●
	Power supply	●	●	●	●	●	●	●
	Processing	●	●	●	●	●	●	●
	Procurement and labour	●	●	●	●	●	●	●
	Rail load-out facility	●	●	●	●	●	●	●
	Reclamation and decommissioning	●	●	●	●	●	●	●

Table 16-A2. Risk Ratings of Disturbance Effects on Wildlife Valued Components

Project Phase	Category	Amphibians	Migratory Birds	Raptors	Bats	Fur-bearers	Large Mammals	Ungulates
Operations 1 <i>(cont'd)</i>	Stockpiles	●	●	●	●	●	●	●
	Tailings management	●	●	●	●	●	●	●
	Traffic	●	●	●	●	●	●	●
	Waste disposal	●	●	●	●	●	●	●
	Water management	●	●	●	●	●	●	●
Operations 2	Processing	●	●	●	●	●	●	●
	Reclamation and decommissioning	●	●	●	●	●	●	●
	Tailings management	●	●	●	●	●	●	●
	Water management	●	●	●	●	●	●	●
Closure	Environmental management and monitoring	●	●	●	●	●	●	●
	Open pit	●	●	●	●	●	●	●
	Procurement and labour	●	●	●	●	●	●	●
	Reclamation and decommissioning	●	●	●	●	●	●	●
	Stockpiles	●	●	●	●	●	●	●
	Tailings management	●	●	●	●	●	●	●
	Waste disposal	●	●	●	●	●	●	●
Post-Closure	Environmental management and monitoring	●	●	●	●	●	●	●
	Open pit	●	●	●	●	●	●	●
	Procurement and labour	●	●	●	●	●	●	●
	Stockpiles	●	●	●	●	●	●	●
	Tailings management	●	●	●	●	●	●	●

Table 16-A3. Risk Ratings of Mortality Effects on Wildlife Valued Components

Project Phase	Category	Amphibians	Migratory Birds	Raptors	Bats	Fur-bearers	Large Mammals	Ungulates
Construction	Concrete production	●	●	●	●	●	●	●
	Dangerous goods and hazardous materials	●	●	●	●	●	●	●
	Environmental management and monitoring	●	●	●	●	●	●	●
	Equipment	●	●	●	●	●	●	●
	Explosives	●	●	●	●	●	●	●
	Fuel supply, storage and distribution	●	●	●	●	●	●	●
	Open pit	●	●	●	●	●	●	●
	Potable water supply	●	●	●	●	●	●	●
	Power supply	●	●	●	●	●	●	●
	Processing	●	●	●	●	●	●	●
	Procurement and labour	●	●	●	●	●	●	●
	Project Site development	●	●	●	●	●	●	●
	Rail load-out facility	●	●	●	●	●	●	●
	Roads	●	●	●	●	●	●	●
	Stockpiles	●	●	●	●	●	●	●
	Tailings management	●	●	●	●	●	●	●
	Temporary construction camp	●	●	●	●	●	●	●
	Traffic	●	●	●	●	●	●	●
	Waste disposal	●	●	●	●	●	●	●
Water management	●	●	●	●	●	●	●	
Operations 1	Concentrate transport	●	●	●	●	●	●	●
	Dangerous goods and hazardous materials	●	●	●	●	●	●	●
	Environmental management and monitoring	●	●	●	●	●	●	●
	Equipment	●	●	●	●	●	●	●
	Fuel supply, storage and distribution	●	●	●	●	●	●	●
	Mining	●	●	●	●	●	●	●
	Ore processing	●	●	●	●	●	●	●
	Potable water supply	●	●	●	●	●	●	●
	Power supply	●	●	●	●	●	●	●
	Processing	●	●	●	●	●	●	●
	Procurement and labour	●	●	●	●	●	●	●
	Rail load-out facility	●	●	●	●	●	●	●
	Reclamation and decommissioning	●	●	●	●	●	●	●

Table 16-A3. Risk Ratings of Mortality Effects on Wildlife Valued Components

Project Phase	Category	Amphibians	Migratory Birds	Raptors	Bats	Fur-bearers	Large Mammals	Ungulates
Operations 1 <i>(cont'd)</i>	Stockpiles	●	●	●	●	●	●	●
	Tailings management	●	●	●	●	●	●	●
	Traffic	●	●	●	●	●	●	●
	Waste disposal	●	●	●	●	●	●	●
	Water management	●	●	●	●	●	●	●
Operations 2	Processing	●	●	●	●	●	●	●
	Reclamation and decommissioning	●	●	●	●	●	●	●
	Tailings management	●	●	●	●	●	●	●
	Water management	●	●	●	●	●	●	●
Closure	Environmental management and monitoring	●	●	●	●	●	●	●
	Open pit	●	●	●	●	●	●	●
	Procurement and labour	●	●	●	●	●	●	●
	Reclamation and decommissioning	●	●	●	●	●	●	●
	Stockpiles	●	●	●	●	●	●	●
	Tailings management	●	●	●	●	●	●	●
	Waste disposal	●	●	●	●	●	●	●
Post-Closure	Environmental management and monitoring	●	●	●	●	●	●	●
	Open pit	●	●	●	●	●	●	●
	Procurement and labour	●	●	●	●	●	●	●
	Stockpiles	●	●	●	●	●	●	●
	Tailings management	●	●	●	●	●	●	●