

Table 50
Nkamouna Environmental and Social Impact Assessment
Short-term Impacts, Mitigation Measures and Residual Impacts of Mining Operations

Section	Impacted resource	Cause of impact	Primary receptor	Control Measures	Significance												Specific Monitoring	Monitoring Program (defined in ESAP)
					Short Term w/o Mitigation				Short Term w/ Mitigation				Long term w/ Mitigation					
					Neg		Pos		Neg		Pos		Neg		Pos			
					H	M	L	I	H	M	L	I	H	M	L	I		
6.4.1	Climate	Warming	Land surface	Revegetation													No	
6.4.2.1	Air quality	CHP unit emissions	Residents	Equipment emission controls													Yes	Emissions control monitoring
6.4.2.2	Air quality	Fugitive emissions	Global	Revegetation													No	
6.4.2.2	Air quality	Plant emissions	Residents	Stack scrubbers													Yes	Emissions control monitoring
6.4.2.2	Air quality	Road emissions	Residents	Road watering/speed restrictions													Yes	Safety inspections
6.4.2.2	Air quality	Combined impacts	Residents	Revegetation/road watering/speed													Yes	PM10 monitoring
6.4.2.3	Air quality	Odors	Residents	Waste Management Planning													Yes	Report
6.4.3	Noise	Project activities	Residents	Speed limits													Yes	Safety inspections
6.4.3	Noise	Project activities	Employees	Protective Hearing Equipment													Yes	Safety inspections
6.4.4	Topography/land form	Open Pits/waste storage	Land surface	Reclamation, grading, shaping													No	
6.4.5	Visual resources	Open Pits/waste storage	Residents	Reclamation/revegetation													No	
6.4.6.1	Geology	Construction/mining	Geologic structure	None													No	
6.4.6.2	Geology	ARD Characteristics	Land/surface water	No ARD potential													No	
6.4.7.1	Soils	Mining/construction	Topsoil	Salvage/stockpile/Reuse													No	
6.4.7.2	Soils	Erosion	Surface water	Sediment Control Structures													Yes	
6.4.8.1	Groundwater	Drawdown	Water supply wells	Monitoring/no drawdown in dry													Yes	Groundwater monitoring
6.4.8.2	Groundwater	Contamination	Water quality	Monitoring/alternate supply													Yes	Groundwater monitoring
6.4.9.1	Surface Water	Abstraction	Surface water	No abstraction in dry													No	
6.4.9.2	Surface Water	Contamination	Water quality	Treatment													Yes	Surface Water monitoring
6.4.10	Flora	Mining/plant construction	Flora communities	Reclamation													No	
6.4.10	Flora	Mining/plant construction	Sensitive flora habitats	Support to Dja reserve													Yes	biomonitoring
6.4.10	Flora	Invasive species	Flora communities	Reclamation													Yes	Invasive species control
6.4.10	Flora	Off-site pressure	Flora communities	Strict supply contracts													Yes	Timber type monitoring
6.4.11.1	Fauna	Mining/plant construction	Loss of habitat	Support to Dja reserve													Yes	
6.4.11.2	Fauna	Increased hunting/mortalities	Fauna species	Restrictions/speed limits													No	
6.4.11.3	Fauna	Pest species	Disease vectors	Education/control/inspection													No	
6.4.12.1	Region Income	Direct employment	Project Labor Force	None													No	
6.4.12.2	Region Income	Land pressure	Residents	Support programs													Yes	Social monitoring
6.4.12.3	Region Income	Forest resources	Residents	Reclamation													No	
6.4.12.4	Region Income	Indirect employment	Local Labor Force	None													No	
6.4.13	Region Population	In-migration	Residents	Support programs													No	
6.4.14	Region Population	Public health and safety	Residents	Education/engineering controls													No	
6.4.15	Embankment Safety	Failure	Residents/surface water	Care and maintenance													Yes	Physical inspection
6.4.18	Cultural Property	Project activities	Residents	Education/salvage													No	

H - High M :Moderate L: low I: insignificant