

Table 49
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)					
					Neg			Ranking			Pos			Neg			Ranking					Pos				
					Short Term w/o Mitigation			Short Term w/ Mitigation			Short Term w/o Mitigation			Short Term w/ Mitigation			Long term w/ Mitigation									
					H	M	L	I	L	M	H	M	L	I	L	M	H	M	L			I	L	M	H	
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																					No	
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																					No	
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