Beyondie Sulphate o	f Potash Project								
Existing environment/  Mitigation			Significant Residual Offset Calculation Methodology						
Impact	Avoid and minimise	Rehabilitation Type	Likely Rehab Success	Impact	Туре	Risk	Likely offset success	Time Lag	Offset Quantification
Clearing of 1269 ha of vegetation	Avoid: Cleared exploration land utilised where possible. 164 ha of works located on unvegetated salt lake surface Minimise: Implement GDP process. Clear minimum vegetation required for safe operations	1309 ha rehabilitated to native vegetation. Rehabilitation to occur as per MCP.	Can the environmental values be rehabilitated / Evidence? The majority of disturbance is generally narrow (access and pipelines) which will result in a greater rehabilitation success. Evaporation ponds are located away from areas of complex vegetation structures such as lake edges and the fresher marsh area of Beyondie Lakes.  Operator experience in undertaking rehabilitation? Kalium Lakes is a new company however will utilise experienced rehabilitation operators during the closure phase.  What is the type of vegetation being rehabilitated? Little Sandy desert vegetation.  Time lag?  Desert species may take some time (>10 years) to become established.  Credibility of the rehabilitation proposed (evidence of demonstrated success)  No potential issues with rehabilitation identified to-date.  Managed under the Mining Act via a MCP.	No					
Clearing of 238 ha of <i>Tecticornia</i> shrubland vegetation. Potential indirect health impacts.	Avoid: The majority of mapped <i>Tecticornia</i> shrubland vegetation was excluded from development envelopes. The excess salt stockpile was relocated outside of <i>Tecticornia</i> shrubland vegetation. The development envelope boundaries follow existing tracks and drill pads wherever practicable. The majority of trenches are located on the bare salt lake surface. At least 30% of each concentrator lake has been excluded from the development envelopes Minimise: 238 ha disturbance limit. 20 GL/yr limit on brine abstraction. Limit indirect impact area to 10% of mapped extent of each lake. Conduct further field surveys within potential impact area Implement Tecticornia Monitoring Program	Rehabilitation to occur as per MCP. 238 ha rehabilitated to Tecticornia shrubland vegetation. All bores and trenches decommissioned.	Can the environmental values be rehabilitated / Evidence? The majority of disturbance is generally narrow (access and pipelines) which will result in a greater rehabilitation success.  Operator experience in undertaking rehabilitation? Kalium Lakes is a new company however will utilise experienced rehabilitation operators during the closure phase.  What is the type of vegetation being rehabilitated? Tecticornia shrubland vegetation.  Time lag? Reliant on surface water and inundation regimes during rehabilitation.  Credibility of the rehabilitation proposed (evidence of demonstrated success)  No potential issues with rehabilitation identified to-date.  Managed under the Mining Act via a MCP.	No					
habitat for 4 Priority 1 species (5.7% of mapped extent in survey area) and potential undescribed species. Potential indirect health impacts associated with groundwater drawdown.	The excess salt stockpile was relocated outside of Tecticornia	All bores and trenches	Can the environmental values be rehabilitated / Evidence? The majority of disturbance is generally narrow (access and pipelines) which will result in a greater rehabilitation success.  Operator experience in undertaking rehabilitation? Kalium Lakes is a new company however will utilise experienced rehabilitation operators during the closure phase.  What is the type of vegetation being rehabilitated? Tecticornia shrubland vegetation.  Time lag? Reliant on surface water and inundation regimes during rehabilitation.  Credibility of the rehabilitation proposed (evidence of demonstrated success) No potential issues with rehabilitation identified to-date.  Managed under the Mining Act via a MCP.	No					
Groundwater drawdown within area of GDV	Avoid: Direct impacts to GDV have been avoided Minimise: Limit abstraction to 0.25 GL/yr at Kumarina Limit abstraction at Ten Mile South to 4 m drawdown in accordance with stygofauna requirements	N/A - no impact expected	N/A						

habitat potentially utilised by	The majority of sand dune habitat was excluded from	MCP.	Can the environmental values be rehabilitated / Evidence? No potential issues / impediments with rehabilitation	No
conservation significant fauna.	· ·	Dunes reinstated and rehabilitated	identified to-date.	
	The development envelope boundaries follow existing tracks	at closure.	Operator experience in undertaking rehabilitation?	
	and drill pads wherever practicable.		Kalium Lakes is a new company however will utilise	
	Minimise:		experienced rehabilitation operators during the closure	
	Implement GDP process.		phase.	
	Clear minimum habitat required for safe operations.		What is the type of vegetation being rehabilitated?	
			Sand dune habitat.	
			Time lag?	
			Desert species may take some time (>10 years) to become	
			established.	
			Credibility of the rehabilitation proposed (evidence of demonstrated success)	
			No potential issues with rehabilitation identified to-date.	
			Managed under the Mining Act via a MCP.	
Clearing of potential Night Parrot habitat	Avoid:  No Night Parrot records have been identified	Rehabilitation to occur as per MCP.	Can the environmental values be rehabilitated / Evidence?  No potential issues / impediments with rehabilitation	No
Habitat	Minimise:		identified to-date.	
	Prepare Night Parrot Management Plan to detail actions to be taken if a Night Parrot is recorded on site		Operator experience in undertaking rehabilitation? Kalium Lakes is a new company however will utilise	
	taken ii a Night Parrot is recorded on site		experienced rehabilitation operators during the closure	
			phase.	
			What is the type of vegetation being rehabilitated?	
			General Night Parrot habitat.	
			Time lag?	
			Desert species may take some time (>10 years) to become	
			established.	
			Credibility of the rehabilitation proposed (evidence of	
			demonstrated success)	
			No potential issues with rehabilitation identified to-date.	
			Managed under the Mining Act via a MCP.	
, 0	Avoid:	Abstraction to cease and bores	Can the environmental values be rehabilitated / Evidence?	No
groundwater abstraction	None able to be committed to.		Yes, aquifer will reinstate once pumping ceases.	
	Minimise:	* *	Operator experience in undertaking rehabilitation?	
	Limit abstraction at Kumarina to 0.25 GL/yr.		None required, simple process.	
	Limit abstraction at Ten Mile South calcrete aquifer to 4 m		What is the type of vegetation being rehabilitated?	
	drawdown at every bore.		N/A	
	Compliance with 5C Licence and GWOS		Time lag?	
			Reinstatement of aquifer dependant on rainfall events.	
			Likely to take >10 years to be fully reinstated.	
			Credibility of the rehabilitation proposed (evidence of	
			demonstrated success)  Credible aguifer will recharge from rainfall events	
			Credible, aquifer will recharge from rainfall events.	
Alteration of salt lake hydrological	Avoid:	Abstraction to cease, trenches will	Can the environmental values be rehabilitated / Evidence?	No
processes and water quality	Kalium has avoided impacts to the Beyondie Lakes in Project	be filled and bores capped and	Yes, aquifers will gradually reinstate once pumping ceases.	
· · ·			Salt lake processes will return to normal once aquifers	
	At least 30% of each concentrator lake has been excluded	pastoralist.	become reinstated.	
	from the development envelopes.		Operator experience in undertaking rehabilitation?	
	Produce saleable products from waste salt and bitterns if		None required, simple process.	
	possible		What is the type of vegetation being rehabilitated?	
	Minimise:		N/A.	
	Limit abstraction of brine to 20 GL/yr.		Time lag?	
	Compliance with 5C Licence and GWOS		Reinstatement of processes dependant on rainfall events.	
	Limit abstraction as per the 10% indirect impact limit for		Likely to take >20 years to be fully reinstated.	
	Tecticornia		<u>Credibility of the rehabilitation proposed (evidence of </u>	
	Develop and implement Tecticornia Monitoring Program.		demonstrated success)	
	Line evaporation ponds with HDPE to prevent seepage and		Credible, aquifer will recharge from rainfall events, however	
	mounding.		over a long period of time.	
	Install as while have also record access to the control of			
	Install earth bund around excess salt stockpile Sample and treat any PASS if excavated from trenches			