

"RA9"

LIST OF STUDIES UNDERTAKEN	RECOMMENDATIONS OF SPECIALIST REPORTS	SPECIALIST RECOMMENDATIONS THAT HAVE BEEN INCLUDED IN THE EIA REPORT (Mark with an X where applicable)	REFERENCE TO APPLICABLE SECTION OF REPORT WHERE SPECIALIST RECOMMENDATIONS HAVE BEEN INCLUDED.
	<p>photographic record.</p> <ul style="list-style-type: none"> <li>• Compile a stormwater management plan that outlines a strategy for the management of stormwater flows off all hardened surfaces and off roads to inform ongoing management.</li> </ul> <p><b>Closure Phase</b></p> <ul style="list-style-type: none"> <li>• Rehabilitate eroded areas (e.g. eroded channels, dongas).</li> <li>• Plan for the management of water runoff during infrequent but potentially destructive storms.</li> <li>• Remove or shape graded vegetation and soils along the road edges to ensure dissipation occurs.</li> <li>• Regularly maintain stormwater outlets / dissipation channels.</li> <li>• Ensure that waste (e.g. plastic, rubble) is disposed of appropriately on a frequent and ongoing basis.</li> <li>• Ensure that vehicle and machinery refuelling / storage is managed to minimise pollution opportunities.</li> </ul> <p><b>Best Practice</b></p> <ul style="list-style-type: none"> <li>• Engage in active rehabilitation of the existing erosion channels on Farm Geelwal Karoo 262. Measures to dissipate flow, increase topsoil and allow the establishment of stabilising vegetation along and in the channels should be implemented.</li> </ul>	<p>X</p>	<p>Appendix 11E, Section 6.7</p>
<p><b>Terrestrial Ecology Impact Assessment</b></p>	<p><b>Construction Phase</b></p> <ul style="list-style-type: none"> <li>• Appoint a suitably qualified specialist to undertake a preconstruction walk-through to identify SCC and protected species within the construction footprint and oversee the rescue and relocation of these species.</li> <li>• Obtain a permit from CapeNature for the removal and/or destruction of SCC.</li> <li>• Limit vegetation clearance and the footprint of construction activities to the minimum required.</li> <li>• Clearly define the boundary of the construction footprint area and ensure that</li> </ul>	<p>X</p>	<p>Appendix 11E, Section 6.2 –6.7</p> <p>Appendix 11F, Page 38</p>

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	<p>all activities remain within the defined footprint area.</p> <ul style="list-style-type: none"> <li>• Ensure all new haul and access roads on Farm Geelwal Karoo 262 are constructed within the boundaries of the proposed mining area or infrastructure / plant expansion area.</li> <li>• Locate laydown areas or other temporary use areas within the construction footprint or the existing approved processing area.</li> <li>• Erect wind screens along beach access roads in areas of mobile sands to limit and contain wind-blown sand.</li> <li>• Appoint a suitably qualified specialist to undertake a preconstruction walk-through of the construction footprint to demarcate and clear burrows.</li> <li>• Limit vehicle speeds on internal and haul roads to 40 km/hr.</li> <li>• Conduct environmental induction for all construction staff to increase awareness in fauna protection.</li> <li>• Prohibit trapping, collecting and hunting of fauna.</li> <li>• Flush any faunal species within the construction footprint towards more suitable habitat within the surrounding areas. Threatened fauna should be relocated by a suitably qualified environmental officer.</li> <li>• Ensure hazardous materials (especially fuel storage) are stored in suitable hazardous material storage facilities.</li> <li>• Clean up spills immediately and dispose of contaminated soil at a licensed waste disposal facility.</li> <li>• Do not leave trenches open for extended periods.</li> <li>• Check for nests within the construction footprint during the preconstruction walk-through.</li> <li>• Keep the construction site clear of litter and especially plastic, twine and string.</li> </ul> <p><b>Operational Phase</b></p> <ul style="list-style-type: none"> <li>• Appoint a suitably qualified specialist to undertake a pre-mining walk-through to identify SCC and protected species within the mining footprint and oversee</li> </ul>	<p>X</p>	
		<p>X</p>	<p>Appendix 11F, Page 41</p>

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	<p>the rescue and relocation of these species.</p> <ul style="list-style-type: none"> <li>• Obtain a permit from CapeNature for the removal and/or destruction of SCC.</li> <li>• Limit vegetation clearance and the footprint of mining activities to the minimum required.</li> <li>• Clearly define the boundary of the mining area and haul / access roads and ensure that all activities remain within the defined footprint area.</li> <li>• Confine vehicles, machinery and staff to designated areas and strictly prohibit the indiscriminate movement of vehicles, machinery and staff outside of the designated roads and mine areas</li> <li>• Rehabilitate disturbed areas incrementally and as soon as possible.</li> <li>• Only clear vegetation when a new block is to be mined. Remove the vegetation and soil simultaneously and, where possible, immediately place this material in an area prepared for rehabilitation to reduce the duration of topsoil storage.</li> <li>• Enforce a 10 m buffer zone from the toe of the sand dunes and cliffs towards the sea in which no mining or disturbance may take place.</li> <li>• Take weekly photographs of beach mining areas (dunes and cliffs) and cease work if deviations are recorded (until mitigation measures are implemented).</li> <li>• Level and contour beach tailings material to allow the sea to restore the natural beach profile. Do not dispose tailings material beyond the setback line or on the foredunes.</li> <li>• Ensure hazardous waste is stored in suitable hazardous material storage containers and is removed from the beaches every day.</li> <li>• Clean up spills immediately and dispose of contaminated soil at a licensed waste disposal facility.</li> <li>• Prohibit unnecessary driving at night.</li> <li>• Limit vehicle speeds on internal and haul roads to 40 km/hr.</li> <li>• Conduct environmental induction for all construction staff to increase awareness in fauna and avifauna protection.</li> </ul>	<p style="text-align: center;">X</p>	

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	<ul style="list-style-type: none"> <li>• Prohibit trapping, collecting and hunting of fauna / avifauna and egg collecting.</li> <li>• Flush any faunal species within the construction footprint towards more suitable habitat within the surrounding areas. Threatened fauna should be relocated by a suitably qualified environmental officer.</li> <li>• Do not leave trenches open for extended periods.</li> <li>• Undertake avifaunal monitoring of the powerline according to the Birdlife-developed Guidelines.</li> <li>• Install bird flight diverters along the length of the powerline.</li> <li>• Insulate the pylons and other exposed infrastructure to avoid avifauna electrocution.</li> <li>• Keep the operational areas clear of litter and especially plastic, twine and string.</li> <li>• Limit the number of beaches mined simultaneously.</li> <li>• Conduct environmental induction for all construction staff to increase awareness in avifauna protection.</li> <li>• Undertake counts at regular roosting sites to determine impact on avifauna.</li> <li>• Monitor rehabilitated areas and, if wind erosion is evident, install wind barriers.</li> <li>• Erect wind screens along beach access roads in areas of mobile sands to limit and contain wind-blown sand. Maintain the wind screens in place three years after beach mining is complete.</li> <li>• Install runoff control measures on all roads and hardened surfaces.</li> <li>• Compile an Alien Plant Management Plan.</li> <li>• Undertake regular monitoring for alien plants within the development footprint.</li> <li>• Conduct regular alien clearing using the best-practice methods for the species concerned. Avoid using herbicides as far as possible.</li> </ul>	<p><b>X</b></p>	
	<p><b>Closure Phase</b></p> <ul style="list-style-type: none"> <li>• Limit the footprint of closure activities to the minimum required. Prohibit the indiscriminate movement of vehicles and staff through vegetation outside of the</li> </ul>	<p><b>X</b></p>	<p>Assessed by EAP</p>

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	<p>affected footprint.</p> <ul style="list-style-type: none"> <li>• Limit vehicle speeds on internal and haul roads to 40 km/hr.</li> <li>• Conduct environmental induction for all staff to increase awareness in fauna protection.</li> <li>• Prohibit trapping, collecting and hunting of fauna.</li> <li>• Ensure hazardous materials (especially fuel storage) are stored in suitable hazardous material storage facilities.</li> <li>• Clean up spills immediately and dispose of contaminated soil at a licensed waste disposal facility.</li> <li>• Do not leave trenches open for extended periods.</li> <li>• Keep the site clear of litter and especially plastic, twine and string</li> </ul> <p><b>Best Practice</b></p> <p>None</p>		
<p><b>Heritage Impact Assessment</b></p> <p><b>Construction Phase</b></p> <p><b>For archaeology finds:</b></p> <ul style="list-style-type: none"> <li>• Limit clearance and the footprint of construction activities to what is essential.</li> <li>• Alert personnel to possibility of finding archaeological resources and follow "Finds Procedure".</li> <li>• Appoint an archaeologist to monitor construction activities and sample affected archaeological resources as required.</li> </ul> <p><b>For fossil bone finds:</b></p> <ul style="list-style-type: none"> <li>• Limit clearance and the footprint of construction activities to what is essential.</li> <li>• Alert personnel to possibility of finding rare fossil bones and follow "Fossil Finds Procedure".</li> <li>• Cease construction on (chance) discovery of fossil bones and protect fossils from further damage.</li> </ul>		<p>X</p>	<p>Appendix 11G, Archaeology Impact Assessment, Section 6.1</p> <p>Appendix 11H, Palaeontology Impact Assessment, Section 6.5</p>