

Nature of Impact			Without Mitigation (Baseline)					With Mitigation					With Mitigation Score (Impact Assessment)	Proposed Mitigation	
Number	Aspect	Impact	Probability (Likelihood)	Extent	Duration (Frequency)	Magnitude (Intensity/Severity)	Receiving Environment (Consequence)	Without Mitigation Score (Baseline)	Probability (Likelihood)	Extent	Duration (Frequency)	Magnitude (Intensity/Severity)			Receiving Environment (Consequence)
<b>IMPACT ASSESSMENT RATING: DESIGN ALTERNATIVES (OPTIONS 1-9)</b>															
<b>CONSTRUCTION AND OPERATION PHASE</b>															
<b>Please note: nature and severity of impacts remain the same as per Appendix J2. For this reason, only the main impacts which differ are detailed below.</b>															
1	Botanical	Loss of Swartland Shale Renosterveld (CR); with regards to some options, a smaller construction footprint is proposed (i.e. reduction in clearance of surrounding land)	-1	-2	-16	-8	-1	-6	-1	-1	-1	-1	-1	-1	Implementation of the EMPr * A suitably qualified ECO must be appointed; * Environmental Awareness training to be conducted with all workers; * Ensure construction activities are restricted to the demarcated footprint, strictly prohibit any vehicles or construction related activities outside of the demarcated footprint area * Access roads to the dam should be limited to a single circular route in and out. Ensure construction vehicles stay on existing roads and erect signs to remind workers not to deviate from the roads.
2		Loss of riparian habitat	-1	-2	-1	-1	-1	-2	-1	-1	-1	-1	-1	-1	Mitigation measures remain as per Appendix J2.
3	Storage capacity	Smaller storage capacity where target storage capacity will not be met. Therefore, existing water use right will not be fully realized.	-16	-2	-8	-16	-2	-9	-16	-2	-8	-16	-2	-9	This impact cannot be mitigated against.
4	Dust	Dust from site topsoil removal, construction, rehabilitation	-4	-2	-1	-1	-1	-2	-1	-1	-1	-1	-1	-1	Dust will be monitored. If dust becomes a problem, dust will be controlled by means of water spray vehicles. No over watering of the site area or roads surfaces should occur. Speed limits must be enforced in all areas to limit the levels of dust pollution. Max speed of 40km/h must be maintained. Protect stockpiled topsoil using tarp or erosion blankets. Stockpile topsoil within an area where no stormwater runoff is expected