ALTERNAT	IVE (NOT-PREFERRED): BONATHABA DAM: THE PROPOSED DEVELOPMENT OF AN INSTREAM DAM ON PORTIONS 2 AND 3 OF FARM NO. 1100, BONATHABA, MAL Mature of Impact Webour Miligation (Baseline) With Miligation								BA, MALMESB	URY, WESTERN CAPE					
Number	Aspect	Impact	Probability (Likelihood)	Extent	Duration (Frequency)	Magnitude (Intensity/	Receiving Environment (Consequenc	Without Mitigation Score (Baseline)	Probability (Likelihood)	Extent	Duration (Frequency	Magnitude (Intensity/	Receiving Environme nt	With Mitigation Score (Impact Assessment)	Proposed Mitigation
1		Loss of Swartland Shale	-16	-2	-16	Severity) CONS -8	e) TRUCTION PH		-8	-2	-4	-4	(Conseque nce) -4	-5	Implementation of the EMP** A suitably qualified ECO must be appointed. * Environmental Awareness training to be conducted with all workens; * Forsure construction activities are restricted to the demacrated footprint, stircity prohibit any vehicles or construction related activities outside of the demacrated footprint are a
	_	Renosterveld (CR)													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 agins to remind workers not to deviate from the roads. Implementation of the EMPr; "Ensure construction activities are restricted to the demacated footprint and strictly prohibit any
2	Botanical	Loss of ESAs	-8	-2	-8	-8	-4	-6	-2	-1	-2	-8	-2	-3	vehicles or construction related activities outside of the democrate/ foctprint area. Mitigation measures would include selecting the preferred attensitive location / layout. * Implementation of the EMPr; "Ensure construction activities are restricted to the demacrated footprint and strictly prohibit any
3		Soil Contamination	-4	-2	-4	-2	-8	-4	-2	-1	-2	-4	-2	-3	demactate hoopnint and sincely plonties any vehicles or construction nativate distributes whiches are construction nativate distributes Concretor mixed on site as part the EMP rand Surptise must be disposed of in the correct manner. Inspect all vehicles daily for the early detection of deterioration or indexis. The contractor should ensure drip trays are placed under stationary vehicles. Split its must be available. Workers should be trained how to use split lists to rectify a split immediately. Records must be kept of any less final 32m form any waterooursel stream and serviced regularly in order to prevent leakage/splitage.
4		Loss of Riparian Habitat	-2	-2	-8	-8	-4	-5	-1	-2	-2	-2	-2	-2	* Ensure construction activities and vehicles are restricted to the demarcated areas to prevent further degradation. Access roads to the dam should be limited to a singular route in and out; * Vehicles will not be permitted to drive through the streams, * Ensure construction footprint is kept as small as possible.
5		Alternation of Hydrology of the drainage line	-2	-2	-8	-8	-4	-5	-2	-1	-2	-2	-2	-2	to the demarctated looprint and strictly prohibit any vehicles or construction related activities outside of the demarctated looprint mane. * No concrete will be mixed on site and surplus must be disposed of in the correct manner. * Constructions should be limited to the dry session * Ensure no building material advowed to wash down stream ** Une the concrete: * Ensure construction tooprint is kept as small as possible;
6	Freshwater	Impact on downstream users.	-2	-4	-8	-8	-4	-6	-2	-1	-2	-4	-2	-3	Drainage lines are transformed "Ensure conditions situated in the Water Use Right (Appendix 8) are compiled with. "Watercourses outside of the proposed construction area must be demarcated as ho postitucian (normal transformation) and postitucian (normal transformation) and postitucian (normage lines) "Ensure construction activities are restricted to the demarcated footnith and strictly prohibit any vehicles or construction natervisites demarcated footnith and strictly prohibit any vehicles or construction related activities outside of the demarcated Stophyth area. Ino must be disposed of in the correct manner." Construction and build be limited to the dry season 'Ensure no building material allowed to wash down stream 'Line the spiliway with natural stone rather than concrete, 'Ensure construction footprint is kept as small as possible
7		Surface water & ground water contamination	-2	-2	-8	-8	-4	-5	-2	-1	-2	-2	-2	-2	Implementation of the EMPr; "Ensure construction activities are restricted to the demarcated footprint and strictly prohibit any whicles or construction related activities outside of the demarcated footprint area. "Concrete mixed on site as per the EMPr and surplus must be disposed of in the correct manner." Inspect all vehicles daily for the early detection of deterioration or tesks. "The contractor should ensure dipt prays are placed under stationary vehicles.
8		Loss of Agricultural Land	-8	-2	-4	-4	-4	-5	-4	-2	-2	-2	-2	-3	Mitigation measures include impacting the minimal extent of agricultural area.
9	Dust	Dust from site topsoil removal; construction, rehabilitation	-2	-1	-2	-2	-2	-2	-2	-1	-2	-2	-2	-2	Dust will be monitored. If dust becomes a problem, dust will be controlled by means of water spray whethes. No over watering of the safet spray whethes. No over watering of the Speed limits must be inforced in all press to limit he levels of dust pollution. Max speed of 40km/h must be maintained. Protect stockpiled topsoil using tarp or ension blankets. Stockpile topsoil within an area where no atomwater runofit is expected. The alternative location would be further from the public road and therefore, out of visual site.
10	Visual	Negative visual impact of the	-2	-1	-2	-2	-2	-2	-2	-1	-2	-2	-2	-2	Construction related activities should remain within the demarcated footprint
10	W	proposed development	-		-	-	-		-		-	-	-		