

ent of approximately 2.5km bulk water supply pip

ENVIRONMENTAL RATING SIGNIFICANCE KEY				Number		Aspect		Nature of Impact		Without Mitigation (Baseline)					With Mitigation					Short Description of some Mitigation Measures / Enhancement Measures
				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)	With Mitigation Score (Impact Assessment)					
<b>Negative Impacts</b> Very Significant Significant Increasing Significance Insignificant	<b>SIGNIFICANCE</b> Very High High Medium Low Very Low	<b>RATING</b> >11 to <16 >7 to <11 >4 to <7 -2 to <4 -1 to <-2	<b>Final rating score / value range</b>	1	Surface water	Pollution from excessive sediment in stormwater owing to erosion and litter and inadequate toilets	-6	-5	-3	5	4	-4	-3	-3	-3	-3	-3	Provide sufficient number of toilets for construction phase workers as far from Terhobokloof Stream as possible. Keep disturbance footprint as small as possible to minimise erosion during storms. Provide environmental training that includes strict usage of on-site waste collection system when disposal of waste.		
				2	Waste	Insufficient number of toilets and/or inappropriate disposal of sewage generated during the construction phase.	-5	-4	-3	-3	-4	-4	-2	-2	-3	-2	-1	-2	Provide sufficient number of toilets for construction phase workers as far from Terhobokloof Stream as possible.	
				3	Waste	Temporary increase in litter and construction waste	-6	-4	-3	-5	-3	-5	-2	-1	-1	-1	-1	-2	Provide an environmental awareness presentation before construction work is commenced with and hold the construction supervisor responsible for adherence.	
				4		Protected & endangered plant species: Potential impact on threatened or protected	0	0	0	0	0	0	0	0	0	0	0	0	0	Obtain permits to disturb protected plants and then search for and rescue the protected plants that can be transplanted successfully. Keep construction footprint minimal within the maximum total allowed working space of 10m from the sides of the existing bulk water supply pipeline
				5		Conservation priority: Potential impact on protected areas, CBAs, ESRs or Cores of Endemism	-6	-5	-3	-3	-3	-4	-2	-3	-1	-1	-1	-1	-1	Keep construction footprint minimal within the maximum
				6		Connectivity: Potential loss of ecological migration corridors	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Positive Impacts</b> Significant Increasing Significance Insignificant	<b>SIGNIFICANCE</b> High Medium Low	<b>RATING</b> 10 to 16 4 to <10 1 to <4	<b>Final rating score / value range</b>	7		Encroachment of alien invasive vegetation in disturbed areas during construction activities	0	5	0	0	0	1	0	0	0	0	0	0		
				8		Veld fire risk: Potential risk of veld fires as a result of construction workers trying to warm themselves using fire.	-5	-1	-4	-5	-5	-4	-2	-2	-1	-1	-3	-2	No fires must be allowed on the site.	
				9		Cumulative impacts: Cumulative impact associated with proposed activity.	-2	-1	-1	-1	-1	-2	-1	-1	-1	-1	-1	-1	-1	Keep to all the mitigation measures suggested above and below.
				10		The 'No-Go' option: Potential impact associated with the No-Go scenario.	0	0	0	0	0	0	0	0	0	0	0	0	0	
				11	Services	Increase in demand for municipal services (i.e. increased demand for water, electricity, sewage disposal and solid waste disposal).	0	0	0	0	0	0	0	0	0	0	0	0	0	0
				12	Impact on Cultural, Archaeological, Paleontological, and Heritage	Artifacts may be discovered and/or damaged during the construction phase.	-3	-1	-3	-3	-3	-3	-2	-2	-1	-1	-1	-1	-2	materials prior to making any excavation. If heritage significant material is encountered, stop
13		Loss and/or damage to potential fossils and archaeological and historical sites within the construction footprint.	-3	-1	-3	-3	-3	-3	-2	-2	-1	-1	-1	-1	-1					
14	Socio-economic	Creation of short-term employment opportunities during the construction phase.	8	3	8	10	10	4								#DIV/0!				
15	Dust	Dust will be generated during the construction phase of the proposed development	-2	-1	-1	-1	-1	-2	-1	-1	-1	-1	-1	-1	-1	-1	Implement dust suppression measures			
16	Noise	Noise will be generated during the construction phase.	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
<b>OPERATIONAL PHASE</b>																				
17	Visual	Visual intrusion to onlookers travelling on Michels Pass	-7	-4	-9	-7	-8	-5	-2	-2	-2	-1	-1	-1	-2	Use pipeline and its pedestals as				
18	Socio-economic	Reliable delivery of water through proposed pipeline to Wittebrus WPP for supplying Votselev with potable water	8	4	8	10	10	8									Mitigation is not required			