

**Mogalakwena Mini Scheme - Basic Assessment Report & Water Use License Application**

**Significance Rating Table**

**Specialist Study: Ecology**

**Construction Phase**

Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)	Significance (S=(E+D+M)*P)	Status (+ve or -ve)	Confidence
5.1 Direct impacts on threatened flora species	Nature of impact:	Construction footprint might impact flora species.						
	without	2	2	6	2	20	Low	- High
	with	2	2	4	2	16	Low	- High
	degree to which impact can be reversed:	Can be reversed with offset rehabilitation.						
	degree of impact on irreplaceable resources:	Severe.						
	degree to which impact can be avoided, managed or mitigated:	Can be fully avoided through adherence to mitigation.						
	Suitable Measures to avoid, manage or mitigated identified impacts	Compliance to relevant legislation, EA conditions, EMP conditions and consultation of the ECO before any actions.						
5.2 Direct impacts on protected flora species	Nature of impact:	Construction footprint might impact flora species.						
	without	2	2	4	3	24	Low	High
	with	2	2	2	2	12	Low	High
	degree to which impact can be reversed:	Can be reversed with offset rehabilitation.						
	degree of impact on irreplaceable resources:	Severe.						
	degree to which impact can be avoided, managed or mitigated:	Can be fully avoided through adherence to mitigation.						
	Suitable Measures to avoid, manage or mitigated identified impacts	Compliance to relevant legislation, EA conditions, EMP conditions and consultation of the ECO before any actions.						
	Nature of impact:							
	without	2	2	6	2	20	Low	High
	with	2	2	4	2	16	Low	High

5.3 Direct impacts on threatened faunal taxa	<b>degree to which impact can be reversed:</b>	Can be reversed with offset rehabilitation.						
	<b>degree of impact on irreplaceable resources:</b>	Severe.						
	<b>degree to which impact can be avoided, managed or mitigated:</b>	Can be fully avoided through adherence to mitigation.						
	<b>Suitable Measures to avoid, manage or mitigated identified impacts</b>	Compliance to relevant legislation, EA conditions, EMPr conditions and consultation of the ECO before any actions.						
5.4 Direct impacts on common fauna species/ faunal assemblages	<b>Nature of impact:</b>	Species occupying the same space as the proposed construction area.						
	<b>without</b>	2	2	4	4	32	Medium	High
	<b>with</b>	2	2	2	4	24	Low	High
	<b>degree to which impact can be reversed:</b>	No viable option of reverseal.						
	<b>degree of impact on irreplaceable resources:</b>	Low.						
	<b>degree to which impact can be avoided, managed or mitigated:</b>	Can be mitigated by adherence to mitigation measures.						
	<b>Suitable Measures to avoid, manage or mitigated identified impacts</b>	Construction areas to be cordoned off, operations only between 7am and 4 pm. No killing of animals on the site.						
5.5 Human - Animal conflicts	<b>Nature of impact:</b>	Species occupying the same space as the proposed construction area.						
	<b>without</b>	2	2	4	5	40	Medium	High
	<b>with</b>	2	2	2	5	30	Low	High
	<b>degree to which impact can be reversed:</b>	No viable option of reverseal.						
	<b>degree of impact on irreplaceable resources:</b>	Low.						
	<b>degree to which impact can be avoided, managed or mitigated:</b>	Can be mitigated by adherence to mitigation measures.						
	<b>Suitable Measures to avoid, manage or mitigated identified impacts</b>	Construction areas to be cordoned off, operations only between 7am and 4 pm. No killing of animals on the site.						
	<b>Nature of impact:</b>	Alteration of suitable habitat for animals or alteration of ecologically important habitats.						
	<b>without</b>	3	2	2	2	14	Low	High
	<b>with</b>	3	2	2	2	14	Low	High



	degree to which impact can be reversed:		
	degree of impact on irreplaceable resources:		
	degree to which impact can be avoided, managed or mitigated:		
	Suitable Measures to avoid, manage or mitigated identified impacts		

**Specialist Study: Heritage**

**Construction Phase**

Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)	Significance (S=(E+D+M)*P)	Status (+ve or -ve)	Confidence
	Nature of impact:	Homesteads						
	without	3	3	6	4	48	Medium	- High
	with	1	2	4	3	21	Low	- High
	degree to which impact can be reversed:	High						
	degree of impact on irreplaceable resources:	Low						
	degree to which impact can be avoided, managed or mitigated:	High						
	Suitable Measures to avoid, manage or mitigated identified impacts	Avoid sites by creating suitable buffer zones						
	Nature of impact:	Graves						
	without	1	5	6	4	48	Medium	High
	with	1	2	4	3	21	Low	High
	degree to which impact can be reversed:	High						
	degree of impact on irreplaceable resources:	Low						
	degree to which impact can be avoided, managed or mitigated:	High						
	Suitable Measures to avoid, manage or mitigated identified impacts	Avoid sites by creating suitable buffer zones						
	Nature of impact:							
	without							

	with							
	degree to which impact can be reversed:							
	degree of impact on irreplaceable resources:							
	Nature of impact:							
	without	1	5	4	2	20	Low	High
	with	1	5	4	2	20	Low	High
	degree to which impact can be reversed:	High						
	degree of impact on irreplaceable resources:	Low						
	degree to which impact can be avoided, managed or mitigated:	High						
	Suitable Measures to avoid, manage or mitigated identified impacts	Avoid sites by creating suitable buffer zones						

**Mogalakwena Mini Scheme - No-Go**

Potential Impact	Mitigation	Extent (E)	Duration (D)	Magnitude (M)	Probability (P)	Significance (S=(E+D+M)*P)	Status (+ve or -ve)	Confidence
	Nature of impact:	n/a						
	without							
	with							
	degree to which impact can be reversed:							
	degree of impact on irreplaceable resources:							
	degree to which impact can be avoided, managed or mitigated:							
	Suitable Measures to avoid, manage or mitigated identified impacts							