INVERTEBRATE IMPACT ASSESSMENT SUMMARY TABLES (MARCH 2011)

Please note that the significance values in these tables supersede the significance values in the report.

DUYNEFONTEIN

				Impact on irreplaceable			
Impact	Intensity	Extent	Duration	resources	Consequence	Probability	SIGNIFICANCE
1. Direct habitat destruction	High	Low	High	Medium	Medium	Medium	Medium
Mitigated	Medium	Low	High	Medium	Medium	Medium	Medium
2. Indirect habitat alteration by groundwater disturbance	Medium	Medium	High	Medium	Medium	Medium	Medium
Mitigated	Low	Low	High	Medium	Medium	Medium	Medium
3. Habitat fragmentation	Medium	Medium	High	Low	Medium	Medium	Medium
Mitigated	Low	Medium	High	Low	Medium	Medium	Medium
4. Reduction in populations of rare/protected species	Medium	Low	High	Medium	Medium	Medium	Medium
Mitigated	Low	Low	High	Medium	Medium	Medium	Medium
5. Soil and water pollution	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Mitigated	Low	Low	Medium	Medium	Low	Low	Low
6. Dust pollution	Medium	Medium	Medium	Low	Medium	Medium	Medium
Mitigated	Low	Low	Medium	Low	Low	Low	Low
7a. Light pollution - construction phase	High	Medium	High	Medium	High	High	High
Partly mitigated	Medium	Medium	High	Medium	Medium	Medium	Medium
Fully mitigated	Low	Low	High	Medium	Medium	Medium	Medium
7b. Light pollution - operational phase	High	Medium	High	Medium	High	High	High
Partly mitigated	Medium	Medium	High	Medium	Medium	Medium	Medium
Fully mitigated	Low	Low	High	Medium	Medium	Medium	Medium
8. Increased radiation levels	Low	Medium	High	Low	Medium	Medium	Medium
Mitigated	Low	Medium	High	Low	Medium	Medium	Medium

Impact	Intensity	Extent	Duration	Impact on irreplaceable resources	Consequence	Probability	SIGNIFICANCE
9. Road mortality	Medium	Medium	High	Low	Medium	Medium	Medium
Mitigated	Low	Medium	High	Low	Medium	Medium	Medium
10. Increased risk of fire	High	Medium	Medium	Medium		High	High
Mitigated	Medium	Medium	Medium	Medium	Medium	Medium	Medium
11. Spread of alien invasive invertebrate species	High	Medium	High	Medium	High	High	High
Mitigated	Medium	Medium	High	Medium	Medium	Medium	Medium
12. Land invasion by employment seekers	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Mitigated	Low	Medium	Low	Medium	Low	Low	Low
13. Cumulative impacts	High	Medium	High	Medium	High	High	High
Mitigated	Low	Medium	High	Medium	Medium	Medium	Medium
14. Climate change	Medium	Medium	High	Medium	Medium	Medium	Medium
Mitigated	Low	Medium	High	Medium	Medium	Medium	Medium
15. Positive contribution to conservation	Low	Medium	High	Medium	Medium	Medium	Medium
Mitigated	Low	Medium	High	Medium	Medium	Medium	Medium

BANTAMSKLIP: CONSTRUCTION IMPACTS

Impact	Intensity	Extent	Duration	Impact on irreplaceable resources	Consequence	Probability	SIGNIFICANCE
1. Direct habitat destruction	High	Low	High	Medium	Medium	High	Medium
Mitigated	Medium	Low	High	Medium	Medium	High	Medium
2. Indirect habitat alteration by groundwater disturbance	Medium	Medium	High	Medium	Medium	High	Medium
Mitigated	Low	Low	High	Medium	Medium	Medium	Medium
3. Habitat fragmentation	Medium	Medium	High	Low	Medium	High	Medium
Mitigated	Low	Medium	High	Low	Medium	High	Medium
4. Reduction in populations of rare/protected species	Medium	Low	High	Medium	Medium	Medium	Medium
Mitigated	Low	Low	High	Medium	Medium	Medium	Medium
5. Soil and water pollution	Medium	Medium	Medium	Medium	Medium	High	Medium
Mitigated	Low	Low	Medium	Medium	Low	High	Low - Medium
6. Dust pollution	Medium	Medium	Medium	Low	Medium	High	Medium
Mitigated	Low	Low	Medium	Low	Low	High	Low - Medium
7a. Light pollution - construction phase	High	Medium	High	Medium	High	High	High
Partly mitigated	Medium	Medium	High	Medium	Medium	High	Medium
Fully mitigated	Low	Low	High	Medium	Medium	High	Medium
7b. Light pollution - operational phase	High	Medium	High	Medium	High	High	High
Partly mitigated	Medium	Medium	High	Medium	Medium	High	Medium
Fully mitigated	Low	Low	High	Medium	Medium	High	Medium
8. Increased radiation levels	Low	Medium	High	Low	Medium	Low	Low - Medium
Mitigated	Low	Medium	High	Low	Medium	Low	Low - Medium
9. Road mortality	Medium	Medium	High	Low	Medium	High	Medium
Mitigated	Low	Medium	High	Low	Medium	High	Medium
10. Increased risk of fire	High	Medium	Medium	Medium	High	High	High
Mitigated	Medium	Medium	Medium	Medium	Medium	Medium	Medium
11. Spread of alien invasive invertebrate species	High	Medium	High	Medium	High	High	High
Mitigated	Medium	Medium	High	Medium	Medium	Medium	Medium
12. Land invasion by employment seekers	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Mitigated	Low	Medium	Low	Medium	Low	Medium	Low
13. Cumulative impacts	High	Medium	High	Medium	High	High	High

Impact	Intensity	Extent	Duration	Impact on irreplaceable resources	Consequence	Probability	SIGNIFICANCE
Mitigated	Low	Medium	High	Medium	Medium	High	Medium
14. Climate change	Medium	Medium	High	Medium	Medium	High	Medium
Mitigated	Low	Medium	High	Medium	Medium	High	Medium
15. Positive contribution to conservation	Low	Medium	High	Medium	Medium	High	Medium
Mitigated	Medium	Medium	High	Medium	Medium	High	Medium

<u>THYSPUNT</u>

				Impact on irreplaceable			
Impact	Intensity	Extent	Duration	resources	Consequence	Probability	SIGNIFICANCE
1. Direct habitat destruction	High	Low	High	Medium	Medium	High	Medium
Mitigated	Medium	Low	High	Medium	Medium	High	Medium
2. Indirect habitat alteration by groundwater disturbance	Medium	Medium	High	Medium	Medium	High	Medium
Mitigated	Low	Low	High	Medium	Low	Medium	Low
3. Habitat fragmentation	Medium	Medium	High	Low	Medium	High	Medium
Mitigated	Low	Medium	High	Low	Medium	High	Medium
4. Reduction in populations of rare/protected species	Medium	Low	High	Medium	Medium	Medium	Medium
Mitigated	Low	Low	High	Medium	Low	Medium	Low
5. Soil and water pollution	Medium	Medium	Medium	Medium	Medium	High	Medium
Mitigated	Low	Low	Medium	Medium	Low	High	Low - Medium
6. Dust pollution	Medium	Medium	Medium	Low	Medium	High	Medium
Mitigated	Low	Low	Medium	Low	Low	High	Low - Medium
7a. Light pollution - construction phase	High	Medium	High	Medium	High	High	High
Partly mitigated	Medium	Medium	High	Medium	Medium	High	Medium
Fully mitigated	Low	Low	High	Medium	Low	High	Low - Medium
7b. Light pollution - operational phase	High	Medium	High	Medium	High	High	High
Partly mitigated	Medium	Medium	High	Medium	Medium	High	Medium
Fully mitigated	Low	Low	High	Medium	Low	High	Low - Medium
8. Increased radiation levels	Low	Medium	High	Low	Medium	Low	Low - Medium
Mitigated	Low	Medium	High	Low	Medium	Low	Low - Medium
9. Road mortality	Medium	Medium	High	Low	Medium	High	Medium
Mitigated	Low	Medium	High	Low	Medium	High	Medium
10. Increased risk of fire	High	Medium	Medium	Medium	High	High	High
Mitigated	Medium	Medium	Medium	Medium	Medium	Medium	Medium
11. Spread of alien invasive invertebrate species	High	Medium	High	Medium	High	High	High
Mitigated	Medium	Medium	High	Medium	Medium	Medium	Medium
12. Land invasion by employment seekers	Medium	Medium	Medium	Medium	Medium	Medium	Medium
Mitigated	Low	Medium	Low	Medium	Low	Medium	Low
13. Cumulative impacts	High	Medium	High	Medium	High	High	High

Impact	Intensity	Extent	Duration	Impact on irreplaceable resources	Consequence	Probability	SIGNIFICANCE
Mitigated	Low	Medium	High	Medium	Medium	High	Medium
14. Climate change	Medium	Medium	High	Medium	Medium	High	Medium
Mitigated	Low	Medium	High	Medium	Medium	High	Medium
15. Positive contribution to conservation	Low	Medium	High	Medium	Medium	High	Medium
Mitigated	Medium	Medium	High	Medium	Medium	High	Medium
Thyspunt	Medium	Low	Medium	Medium	Medium	High	Medium
Mitigated	Low	Low	Low	Low	Low	High	Low - Medium

IMPACTS OF ACCESS ROADS

Impact	Intensity	Extent	Duration	Impact on Irreplaceable resources	Consequence	Probability	SIGNIFICANCE
1. Duynefontein	Medium	Medium	High	Medium	Medium	High	Medium
Mitigated	Low	Medium	High	Medium	Medium	High	Medium
2. Bantamsklip	High	Medium	High	Medium	High	High	High
Mitigated	Medium	Medium	High	Medium	Medium	High	Medium
3. Thyspunt	High	Medium	High	Medium	High	High	High
Mitigated	Medium	Medium	High	Medium	Medium	High	Medium

IMPACTS OF TERRESTRIAL SPOIL DISPOSAL

Impact	Intensity	Extent	Duration	Impact on Irreplaceable resources	Consequence	Probability	SIGNIFICANCE
1. Duynefontein	High	Medium	High	Medium	High	High	High
Mitigated	Medium	Medium	Medium	Medium	Medium	High	Medium
2. Bantamsklip	High	Medium	High	Medium	High	High	High
Mitigated	Medium	Medium	Medium	Medium	Medium	High	Medium
3. Thyspunt	High	Medium	High	Medium	High	High	High
Mitigated	Medium	Medium	Medium	Medium	Medium	High	Medium

IMPACTS OF THE NO-GO ALTERNATIVE

				Impact on Irreplaceable			
Impact	Intensity	Extent	Duration	resources	Consequence	Prob.	SIGNIFICANCE
1. Duynefontein	Low	Medium	High	Medium	Medium	High	Medium
Mitigated	Medium	Medium	High	Medium	Medium	High	Medium
2. Bantamsklip	Low	Medium	High	Medium	Medium	High	Medium
Partly mitigated	Low	Medium	High	Medium	Medium	High	Medium
Mitigated	Medium	Medium	High	Medium	Medium	High	Medium
3. Thyspunt	Low	Medium	High	Medium	Medium	High	Medium
Partly mitigated	Low	Medium	High	Medium	Medium	High	Medium
Mitigated	Medium	Medium	High	Medium	Medium	High	Medium