

Table 9-7 Environmental Impacts: Comparison of Options

GOMMMS Environmental Sub-objective	Option 1 : Dualling A417, traffic signals at Air Balloon and additional lane down Crickley Hill	Option 2 : Dualling A417, grade separated junction at Air Balloon and two additional lanes down Crickley Hill	Option 3 : Tunnel between Nettleton and the bottom of Crickley Hill, and de-trunking of existing road
Noise	No. People experiencing increased noise: 82 No. People experiencing reduced noise: 10 Unaffected: 24	No. People experiencing increased noise: 77 No. People experiencing reduced noise: 14 Unaffected: 24	No. People experiencing increased noise: 29 No. People experiencing reduced noise: 89 Unaffected: 0
Local Air Quality	Improved AQ: 8 properties Worsened AQ: 6 properties PM ₁₀ score: 57.4 NO ₂ score : 1295	Improved AQ: 8 properties Worsened AQ: 6 properties PM ₁₀ score: 63 NO ₂ score : 1398	Improved AQ: 91 properties Worsened AQ: 0 properties PM ₁₀ score: -63 NO ₂ score : -968
Greenhouse Gases	Reduction in CO ₂ : 550 tonnes pa	Reduction in CO ₂ : 1530 tonnes pa	Reduction in CO ₂ : 10,574 tonnes pa
Landscape	Moderate Adverse	Large Adverse	Large Adverse
Townscape	N/A	N/A	N/A
Heritage of Historical Resources	Slight Adverse	Moderate Adverse	Slight Adverse
Biodiversity	Moderate Adverse	Moderate Adverse	Very Serious Adverse
Water Environment	Slight Adverse	Slight Adverse	Large Adverse
Physical Fitness	Slight Beneficial	Slight Beneficial	Large Beneficial
Journey Ambience	Slight Beneficial	Neutral	Slight Beneficial