## **Supplementary CPRE Technical Note: BCRS with new carbon values**

	-							
Old carbon values					New carbo	New carbon values		
		Low	Core			Low	Core	
Benefit Type		Growth	Growth	Optimisti	c Growth	Growth	Growth	Optimistic Growth
User benefits (TEE)		£153.44	£181.25	£210.19		£153.44	£181.25	£210.19
Accident benefits		-£7.33	-£7.33	-£7.33		-£7.33	-£7.33	-£7.33
Indirect Taxation		£1.90	£1.41	£1.79		£1.90	£1.41	£1.79
Greenhouse g	gas							
benefits		-£17.45	-£17.45	-£17.45		-£45.32	-£30.21	-£15.02
Air quality		-£3.77	-£3.77	-£3.77		-£3.77	-£3.77	-£3.77
Noise		£3.17	£3.17	£3.17		£3.17	£3.17	£3.17
Delays during	5							
construction		-£1.04	-£1.04	-£1.04		-£1.04	-£1.04	-£1.04
		£128.92	£156.24	£185.56		£101.05	£143.48	£187.99
BCR		1.20	1.45	1.72		0.94	1.33	1.75
						Low growth has high carbon value High growth has low carbon value		
Scheme					NH original			
Cost	107.72				method	New carbon values		
						Low	Core	
						Growth	Growth	Optimistic Growth
						£153.44	£181.25	£210.19
						-£7.33	-£7.33	-£7.33
						£1.90	£1.41	£1.79

frowth Growth Optimistic Growth £153.44 £181.25 £210.19
-£7.33 -£7.33 -£7.33
£1.90 £1.41 £1.79
-£30.21 -£30.21 -£30.21
-£3.77 -£3.77 -£3.77
£3.17 £3.17 £3.17
-£1.04 -£1.04
£116.16 £143.48 £172.80

BCR 1.08 1.33 1.60

Carbon value kept at central

**Source:** Table 3.4: Trans-Pennine Upgrade: Stage 3 Combined Modelling and Appraisal Report Reproduced below

HE551473-BBA-GEB-A57\_AL\_SCHEME-AS-TB-000001 P06 Information Risk Level - Low



Table 3-4 - Summary of Economic Benefits – (2010 prices and discounted to 2010).

Benefit Type	Low Growth	Core Growth	Optimistic Growth
User benefits (TEE)	£153.44m	£181.25m	£210.19m
Accident benefits	-£7.33m	-£7.33m	-£7.33m
Indirect Taxation	£1.90m	£1.41m	£1.79m
Greenhouse gas benefits	-£17.45m	-£17.45m	-£17.45m
Air quality	-£3.77m	-£3.77m	-£3.77m
Noise	£3.17m	£3.17m	£3.17m
Delays during construction	£1.04m	£1.04m	£1.04m
Total (PVB)	£128.92m	£156.23m	£185.55m

3.5.5. In this table accident benefits, greenhouse gas emissions, noise, air quality and delays during construction have not been reassessed for the low or optimistic scenarios. These values are assumed constant for the purpose of calculating a PVB for this sensitivity test.